**SERVICE DATA**
**FILE NO. 110-30**

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# TOSHIBA

## STEREO RADIO CASSETTE RECORDER

# RT-S983 (WX-1)

## SPECIFICATIONS

| | |
|---|---|
| **Cassette Tape Used:** | Normal: C-30, C-60, C-90, C-120<br>Chrome: C-45, C-60, C-90<br>Metal: C-46, C-60, C-90 |
| **Tape Speed:** | 4.8 cm/sec. |
| **Track System:** | Four-track two-channel stereophonic |
| **Recording System:** | AC bias (85 kHz) |
| **Erasing System:** | AC erasing |
| **Frequency Response:** | Normal: 20 Hz to 15 kHz<br>Metal: 20 Hz to 18 kHz |
| **Receiving Frequency:** | FM: 88 MHz to 108 MHz<br>$SW_2$: 7.5 MHz to 22 MHz<br>$SW_1$: 2.3 MHz to 7.5 MHz<br>MW: 525 kHz to 1605 kHz |
| **Intermediate Frequency:** | FM: 10.7 MHz<br>MW, SW: 455 kHz |
| **Antenna:** | FM, SW: telescopic antennas<br>MW: ferrite-core antenna |
| **Speakers:** | 120 mm (dia.) dynamic x 2<br>40 mm (dia.) dynamic x 2<br>Passive radiator (160 mm dia.) x 2 |
| **Jacks:** | [MIC] jack x 2, Impedance 200 ohm to 2k ohm, φ3.5 mm<br>[MIC (REC/PLAY)] jack x 1, impedance 200 ohm to 2k ohm, φ6.3 mm<br>[AUX/PHONO] jack x 2, Impedance 50k ohm, pin-type<br>[LINE OUT] jack x 2, Impedance 2.2k ohm, pin-type<br>[SPEAKER] jack x 2, Impedance 6 ohm to 8 ohm, φ3.5 mm<br>[PHONES] jack x 1, φ6.3 mm<br>[REC MONITOR (TAPE (A))] jack x 1, φ6.3 mm |
| **Power Supply:** | AC 100 to 115V, 120 to 127V, 200 to 220V, 230 to 250V, 50/60 Hz<br>DC 15V (SUM-1 "D" size x 10)<br>External DC power [DC 12-15V] jack, (5.0 mm dia.) center pin "positive" pole. |
| **Power Consumption:** | 32W |
| **Dimensions:** | 740(W) x 379(H) x 180(D) mm |
| **Weight:** | 14 kg (without batteries) |

Specifications are subject to change without notice.

VF

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## POWER SUPPLY

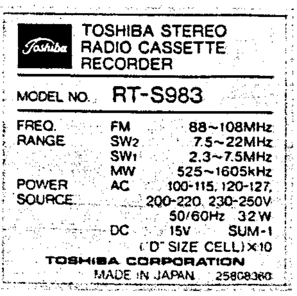
- **Batteries (optional)**
  Open the battery cover, insert 10 dry cells (SUM-1 "D" size) observing correct polarity (+, –).

- **To chack battery condition**
  When the set is switched on, the [BATTERY] indicator should light up. If it fails to light, all 10 batteries have run down, and must be replaced.

**AC power**
The voltage selector selects line voltage from 100-115, 120-127, 200-220 and 230-250V AC. The voltage selector located on the rear of the set is pre-set at 230-250V AC. Connect one end of the power cord to ] AC POWER] socket and the other end to an AC outlet.

**Precautions on power source changeover**
Prior to changing over the voltage selector, confirm the local voltage of the current to which this cassette recorder is to be connected. Should it be inadvertently connected to the wrong voltage, trouble may result.

**For voltage selector changeover**
After unplugging the power cord from its outlet, use a flat-head screwdriver to set the voltage selector to the local line voltage, and connect one end of the power cord to [AC POWER] socket and other end an AC outlet.

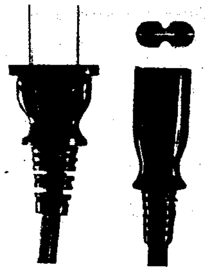


TOSHIBA STEREO
RADIO CASSETTE
RECORDER

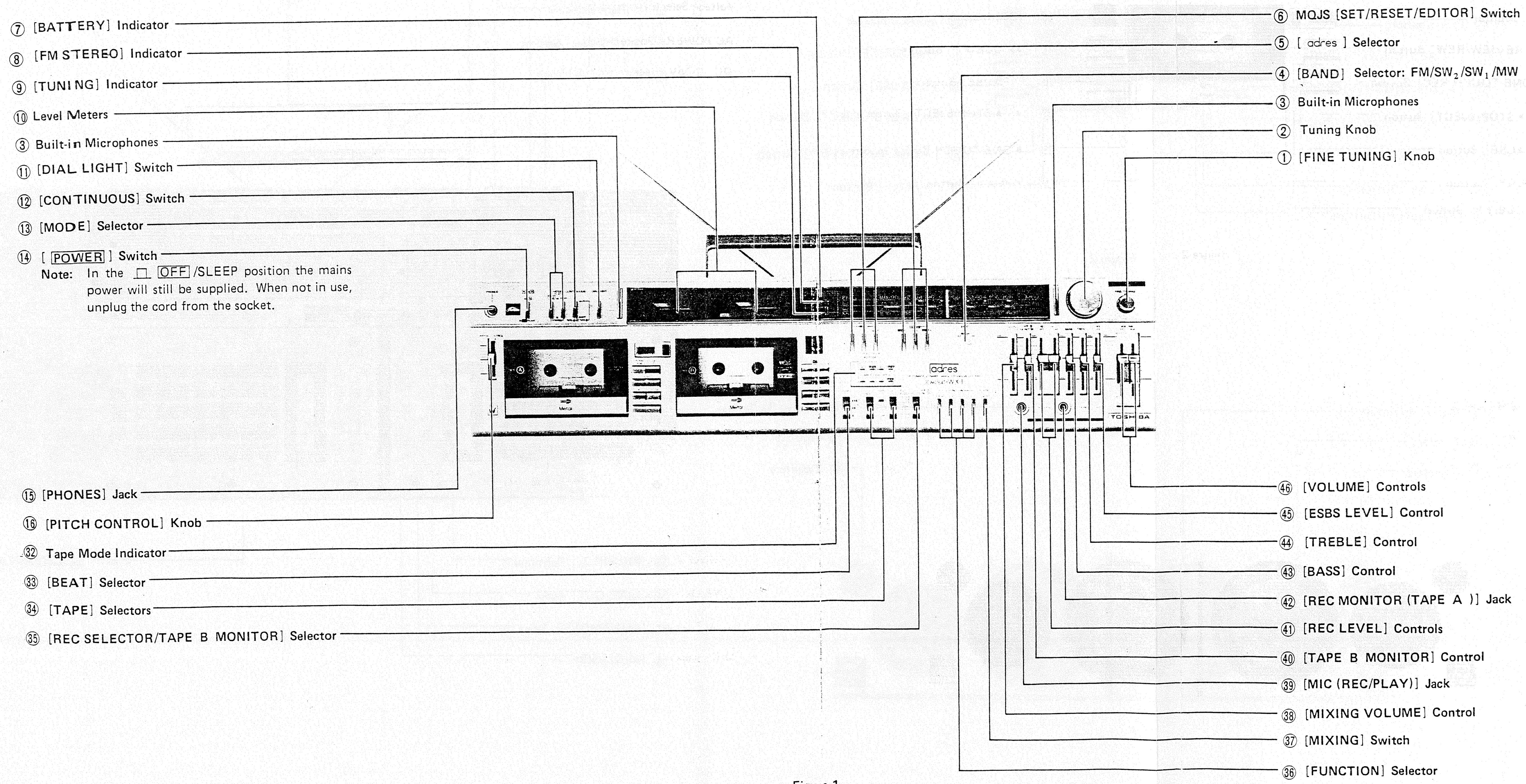
MODEL NO. RT-S983

| | | |
|---|---|---|
| FREQ. RANGE | FM | 88~108MHz |
| | SW2 | 7.5~22MHz |
| | SW1 | 2.3~7.5MHz |
| | MW | 525~1605kHz |
| POWER SOURCE | AC | 100-115, 120-127,<br>200-220, 230-250V<br>50/60Hz 32W |
| | DC | 15V SUM-1<br>("D" SIZE CELL)×10 |

TOSHIBA CORPORATION
MADE IN JAPAN 25808360



# 1. OPERATING CONTROLS


⑦ [BATTERY] Indicator
⑧ [FM STEREO] Indicator
⑨ [TUNING] Indicator
⑩ Level Meters
③ Built-in Microphones
⑪ [DIAL LIGHT] Switch
⑫ [CONTINUOUS] Switch
⑬ [MODE] Selector
⑭ [ POWER ] Switch
⑥ MQJS [SET/RESET/EDITOR] Switch
⑤ [ adres ] Selector
④ [BAND] Selector: FM/SW$_2$/SW$_1$/MW
③ Built-in Microphones
② Tuning Knob
① [FINE TUNING] Knob
adres
TOSHIBA
Metal
⑮ [PHONES] Jack
⑯ [PITCH CONTROL] Knob
㉜ Tape Mode Indicator
㉝ [BEAT] Selector
㉞ [TAPE] Selectors
㉟ [REC SELECTOR/TAPE B MONITOR] Selector
㊻ [VOLUME] Controls
㊺ [ESBS LEVEL] Control
㊹ [TREBLE] Control
㊸ [BASS] Control
㊷ [REC MONITOR (TAPE A )] Jack
㊶ [REC LEVEL] Controls
㊵ [TAPE B MONITOR] Control
㊴ [MIC (REC/PLAY)] Jack
㊳ [MIXING VOLUME] Control
㊲ [MIXING] Switch
㊱ [FUNCTION] Selector

Note: In the ⊓ OFF /SLEEP position the mains power will still be supplied. When not in use, unplug the cord from the socket.

Figure 1

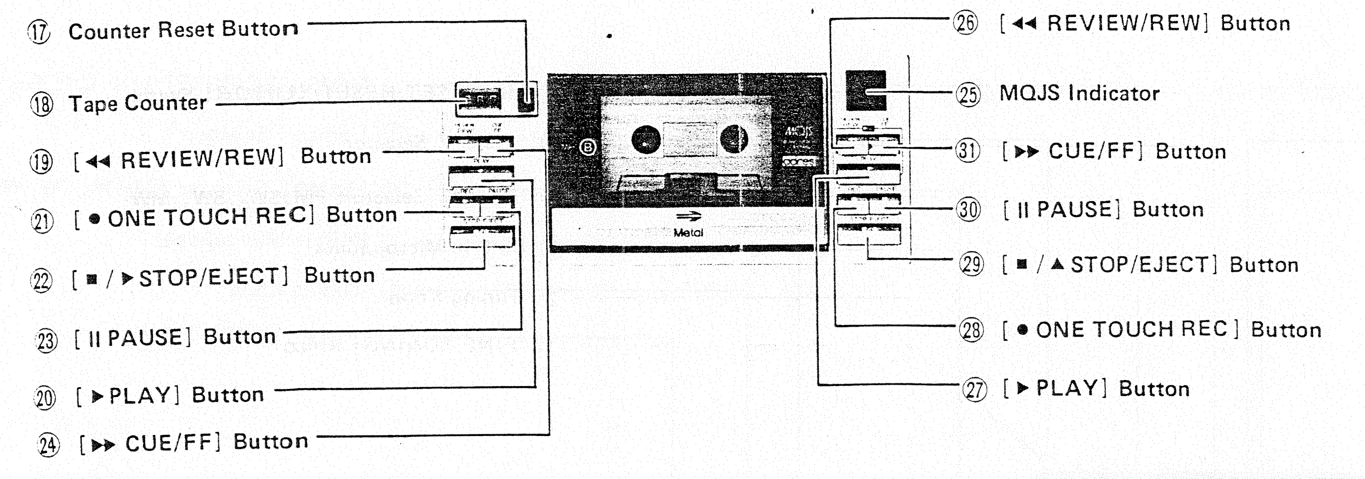

⑰ Counter Reset Button
⑱ Tape Counter
⑲ [◂◂ REVIEW/REW] Button
㉑ [● ONE TOUCH REC] Button
㉒ [■/▸STOP/EJECT] Button
㉓ [II PAUSE] Button
⑳ [▸PLAY] Button
㉔ [▸▸ CUE/FF] Button
㉖ [◂◂ REVIEW/REW] Button
㉕ MQJS Indicator
㉛ [▸▸ CUE/FF] Button
㉚ [II PAUSE] Button
㉙ [■/▲STOP/EJECT] Button
㉘ [● ONE TOUCH REC] Button
㉗ [▸PLAY] Button
MQJS
Metal

Figure 2

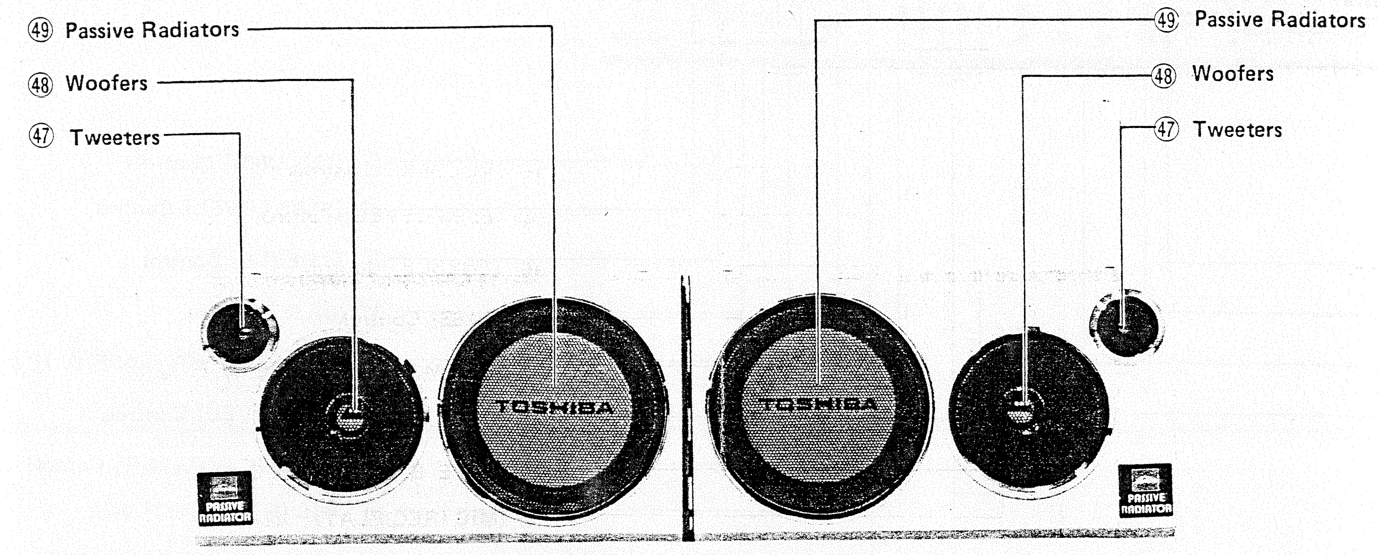

㊾ Passive Radiators
㊽ Woofers
㊼ Tweeters
㊾ Passive Radiators
㊽ Woofers
㊼ Tweeters
TOSHIBA
TOSHIBA
PASSIVE RADIATOR
PASSIVE RADIATOR

Figure 3

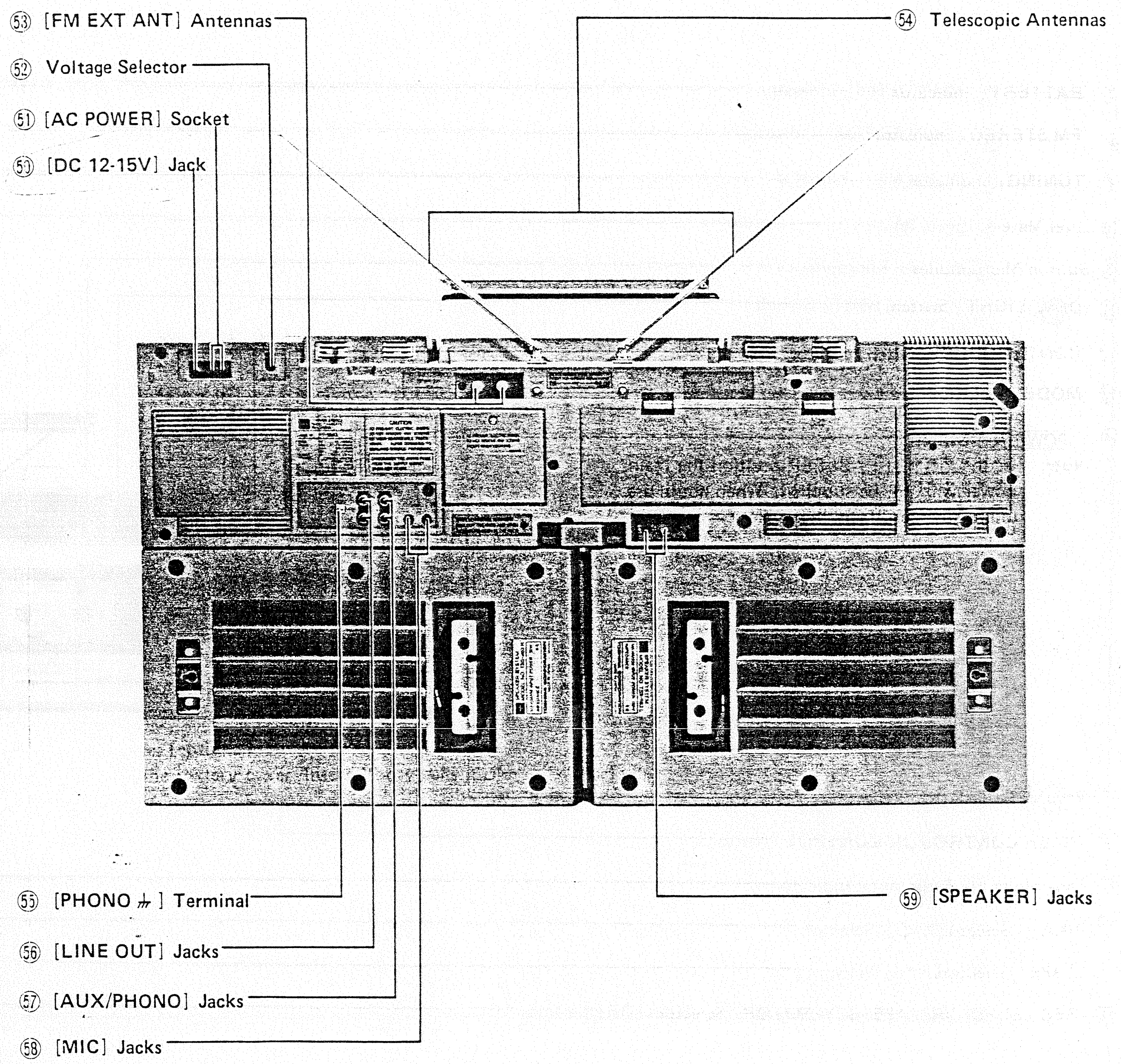

(53) [FM EXT ANT] Antennas
(52) Voltage Selector
(51) [AC POWER] Socket
㊿ [DC 12-15V] Jack
(54) Telescopic Antennas
(55) [PHONO ⏚] Terminal
(56) [LINE OUT] Jacks
(57) [AUX/PHONO] Jacks
(58) [MIC] Jacks
(59) [SPEAKER] Jacks

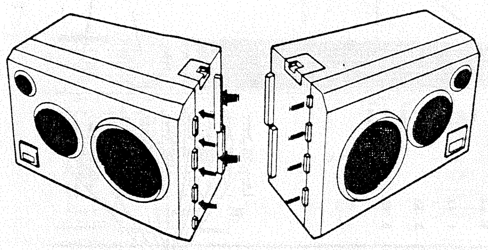
Figure 4

# 2. TECHNICAL POINTS

## SPEAKER INSTALLATION

1. Place the speakers horizontally on a flat desk top or shelf. The right speaker mark should be in the bottom right hand corner and the left speaker mark in the bottom left hand corner. Then join the speakers together by interlocking as shown in the diagram.
2. Remove the protector paper from the speaker protector pads supplied with the unit, and attach these pads to the four bottom corners of the left and right speakers to protect the speakers from knocks and scratches etc.
3. Pull out the catch in the rear of the main unit and place the unit on top of the speakers (see diagram).
4. After making sure that the unit and speakers are properly aligned with each other, lock the connecting catch securely into position.
5. Interlock the latch on the side of the right hand speaker with the corresponding catch on the main unit.
6. Likewise interlock the latch on the side of the left hand speaker.
7. Connect the speaker cord plugs to the [SPEAKER] jacks in the main unit, making sure that left and right speakers are correctly connected to left and right input jacks.

Notes
1. Make sure that the [ POWER ] switch is in the " ⊓ OFF /SLEEP" position before connecting the speaker cord plugs.
2. Always assemble the system in the order described above. If the main unit is lifted without completing steps 3 and 4, the speakers may suffer damage.
3. The speaker marks (PASSIVE RADIATOR badges) can be turned by 90°.
   If the speakers are disconnected from the main unit and placed in upright positions, turn the badges accordingly for correct position use.



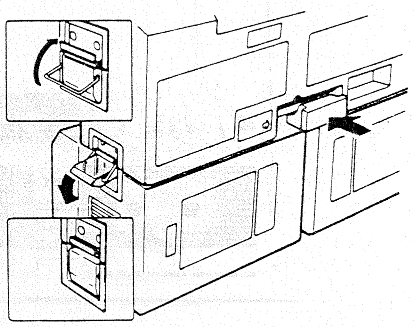


Figure 5

## THE adres SYSTEM

Cassette tapes are narrower and travel more slowly than open reel tapes. During live recordings with wide dynamic range (the level difference between the loudest and softest sounds) and when recording from phonograph records, this handicap tends to result in distortion, making it very difficult to obtain very good recordings. Furthermore, cassette tapes also suffer from inherent noise sources (generally known as tape hiss), resulting in deterioration of the S/N ratio (signal to noise ratio). This noise is particularly irritating during soft passages of music. The Automatic Dynamic Range Expansion System adres developed by Toshiba records input signals after first "compressing" the sound (where the dynamic range is too wide for it to "fit in" on the tape), and then restores the output signals to the original dynamic range width during playback. As a result, this revolutionary system achieves a remarkable dynamic range of about 100 dB at 1 kHz, some 20 to 30 times wider than conventional cassette tape recording systems. And at 88 dB, the S/N ratio has also been greatly improved (by 10 to 20 times). This set features this adres system where a single push of a button ensures you of a wonderful listening experience free of distortion and noise.

## THE ESBS SYSTEM

The [ESBS LEVEL] control enables the very low bass sounds centered around the 90 Hz frequency to be adjusted to match the type of musical instruments and the listener's listening room conditions.
ESBS: Expanded Supper Bass Sound

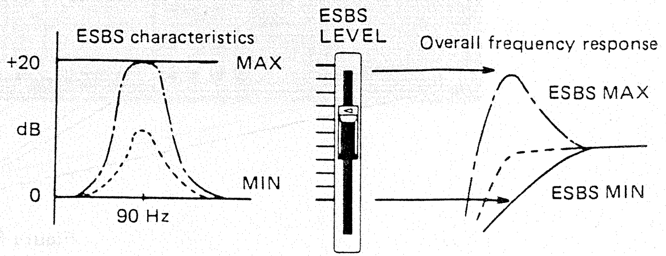


Figure 6

# 3. DISASSEMBLY INSTRUCTIONS

- **FRONT PANEL REMOVAL**
  1. Remove two screws Ⓐ (3φ x 6mm) on the top of the unit. (Figure 7)
  2. Remove twelve knobs Ⓑ. (Figure 8)
  3. Remove five screws Ⓒ (3φ x 35mm) marked arrows. (Figure 9)
  4. Open the cassette covers and pull the front panel toward you to remove it. (Figure 10)

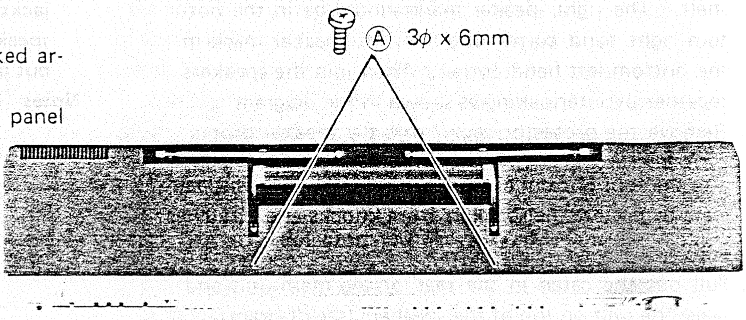


Figure 7

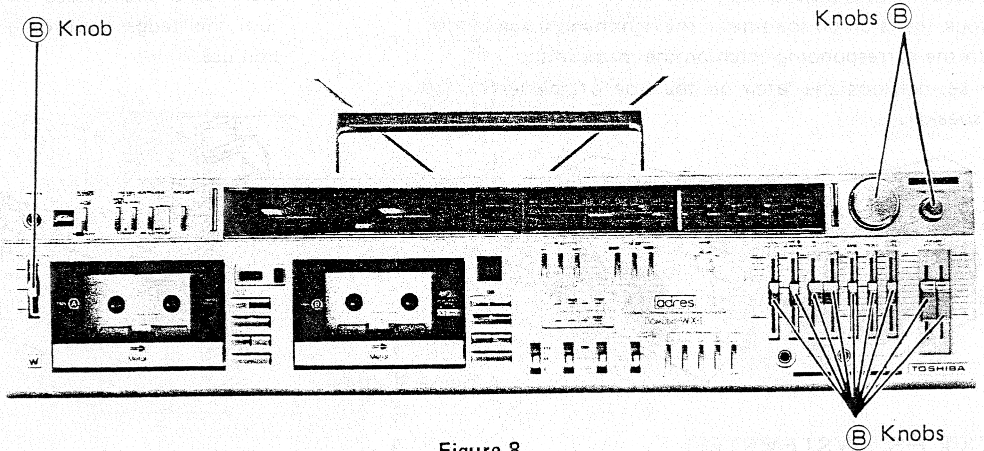


Figure 8

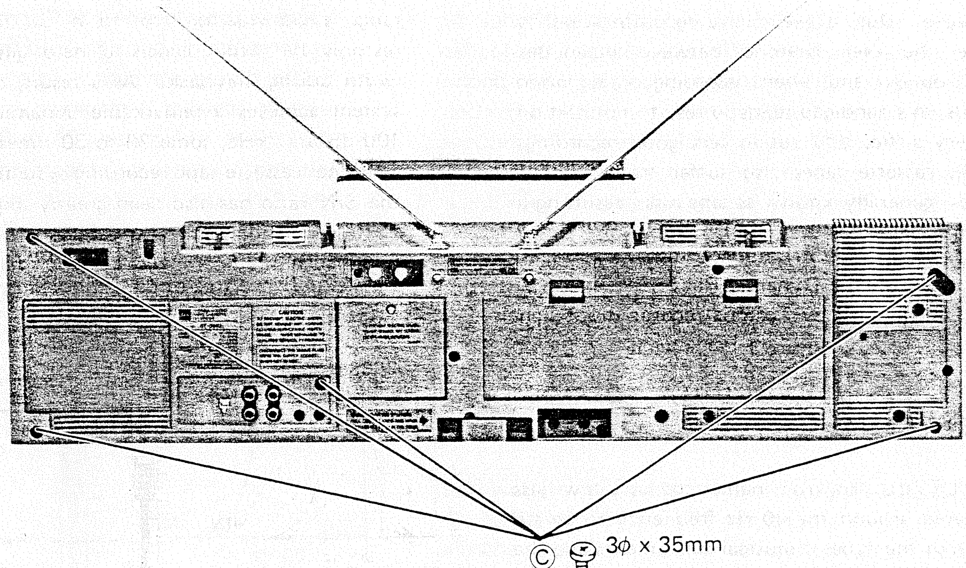


Figure 9

- **CASSETTE MECHANISM ASSEMBLIES REMOVAL**

1. Remove the screw Ⓓ (3φ x 6mm) retaining the frame for the LED P.C. Board. (For removal of the right mechanism assembly only) (Figure 11)
2. Remove eight screws Ⓔ, Ⓕ (3φ x 20mm) on the left and right mechanism assemblies. (Figure 12)

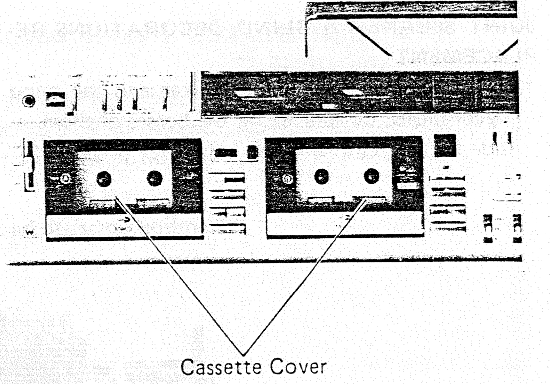

Cassette Cover

Figure 10

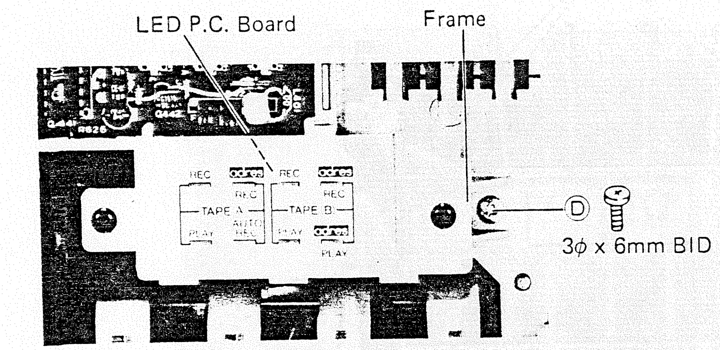

LED P.C. Board
Frame
Ⓓ
3φ x 6mm BID

Figure 11

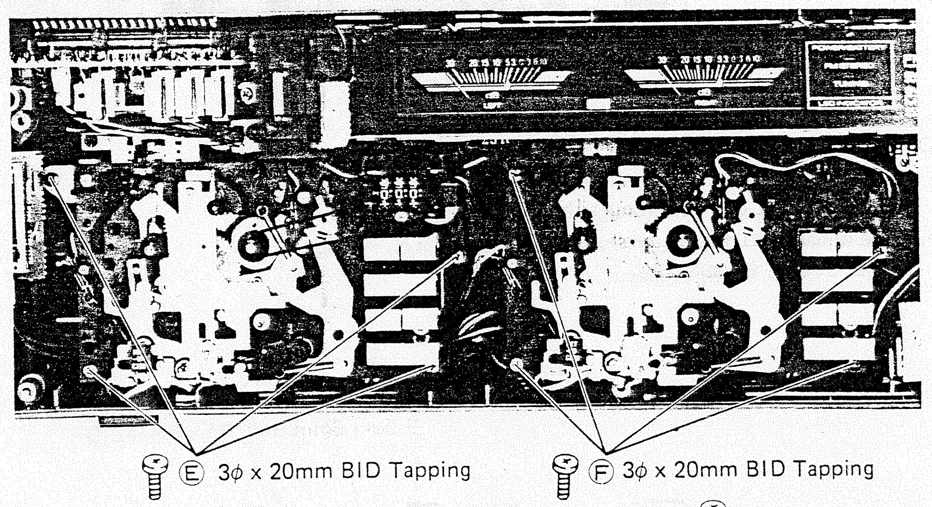

Ⓔ 3φ x 20mm BID Tapping
Ⓕ 3φ x 20mm BID Tapping

Figure 12

- **VOLUME P.C. BOARD REMOVAL**

1. Remove four screws Ⓖ (3φ x 10mm), Ⓗ (3φ x 6mm), Ⓘ (3φ x 12mm) on the frame for the volume P.C. Board to take it out. (Figure 13)

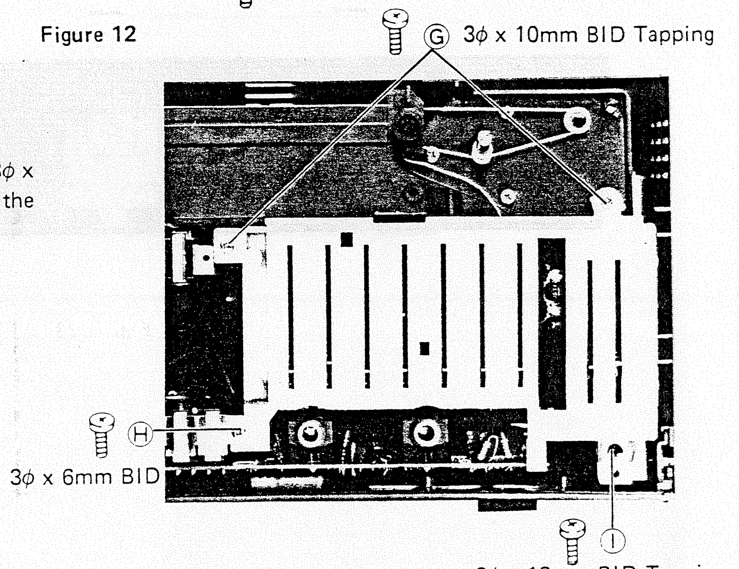

Ⓖ 3φ x 10mm BID Tapping
Ⓗ
3φ x 6mm BID
Ⓘ
3φ x 12mm BID Tapping

Figure 13

- **TUNER P.C. BOARD & PREAMPLIFIER P.C. BOARD REMOVAL**

1. Remove the volume P.C. Board. (Refer to VOLUME P.C. BOARD REMOVAL)
2. Remove the screw Ⓙ (3φ x 12mm) retaining the dial scale assembly. (Figure 14)
3. Remove four hooks Ⓚ holding the dial scale assembly. (Figure 15)
   Note: Take care of the dial pointer when removing the dial scale.
4. Remove four screws Ⓛ (3φ x 12mm) retaining the VU meter. (Figure 16)
5. Remove the screw Ⓜ (3φ x 12mm) retaining the tuner frame. (Figure 17)
6. Remove the screw Ⓝ (3φ x 10mm) retaining the pin jacks on the rear of the unit to take out the tuner P.C. Board and the preamplifier P.C. Board toward you. (Figure 18)

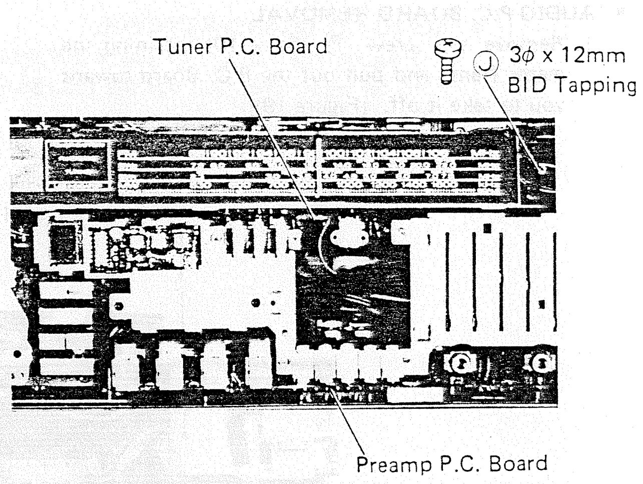

Tuner P.C. Board
Ⓙ 3φ x 12mm BID Tapping
Preamp P.C. Board

Figure 14

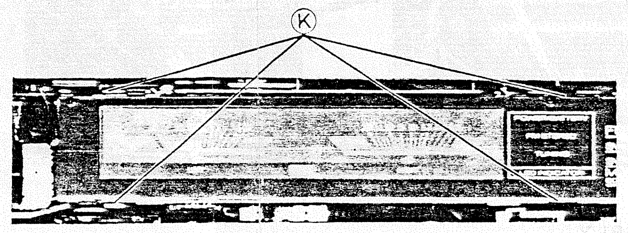


Figure 15

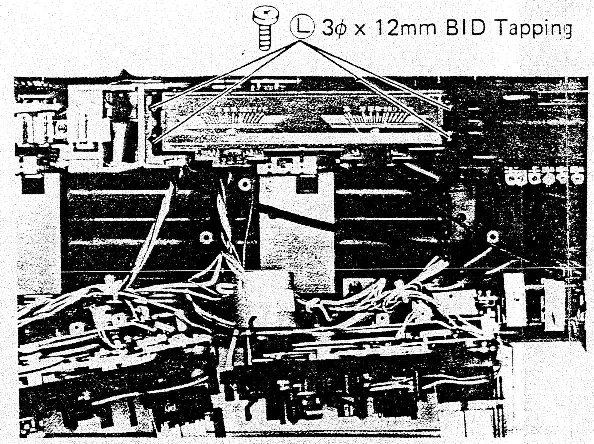

Ⓛ 3φ x 12mm BID Tapping

Figure 16

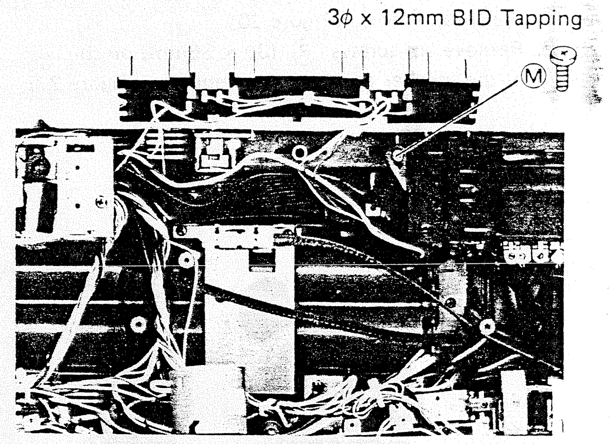

3φ x 12mm BID Tapping
Ⓜ

Figure 17

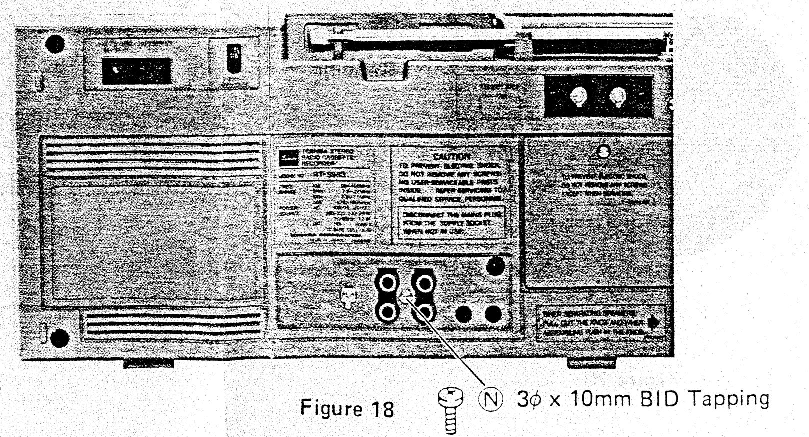

Ⓝ 3φ x 10mm BID Tapping

Figure 18

### ■ AUDIO P.C. BOARD REMOVAL

1. Remove the screw Ⓟ (3ϕ x 10) retaining the meter frame and pull out the P.C. Board toward you to take it off. (Figure 19)

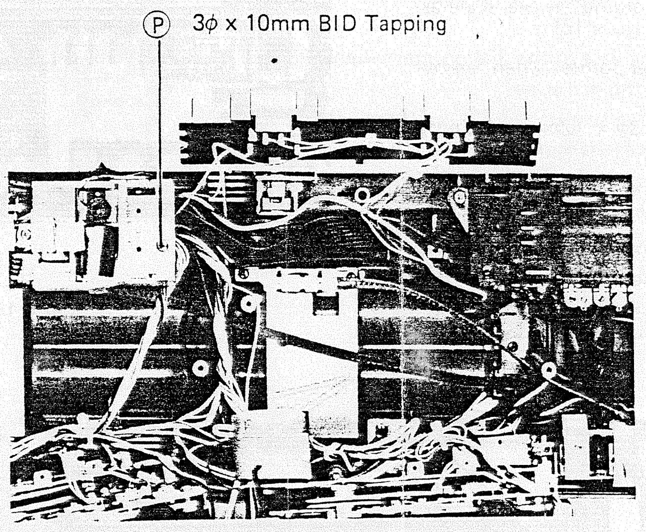

Ⓟ 3ϕ x 10mm BID Tapping

Figure 19

### ■ SPEAKER BOX DISASSEMBLY

1. Remove four screws Ⓠ (3ϕ x 10mm) retaining the speaker box. (Figure 20)
2. Remove six screws Ⓡ (3ϕ x 35mm) on the rear of the speaker box to disassemble it. (Figure 21)

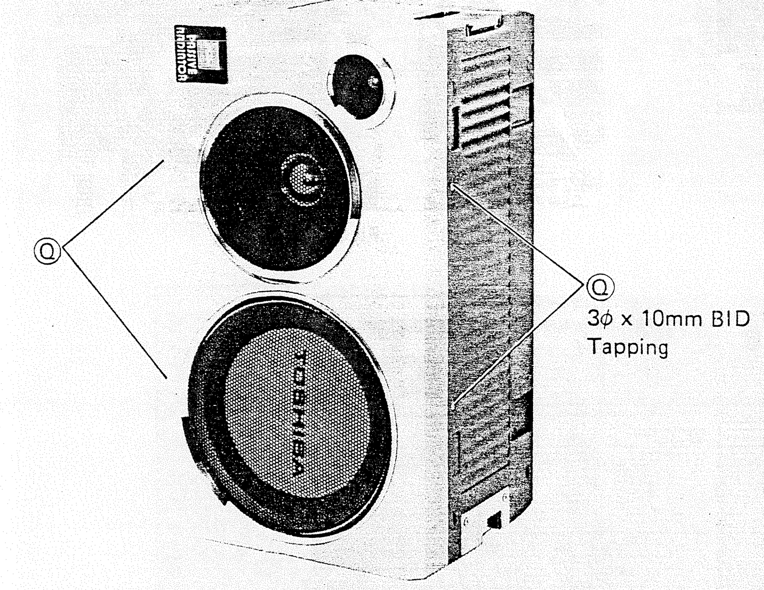

Ⓠ
Ⓠ
3ϕ x 10mm BID Tapping
TOSHIBA

Figure 20

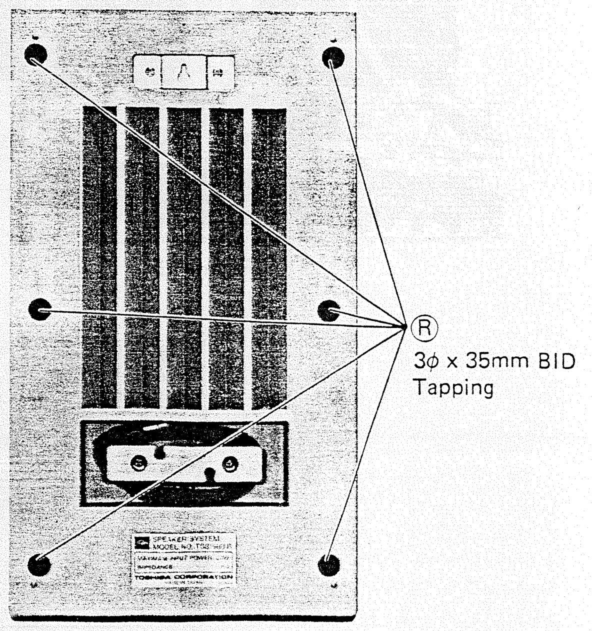

Ⓡ
3ϕ x 35mm BID Tapping

Figure 21

### ■ JOINT SPEAKER & BLIND DECORATIONS REPLACEMENT

1. When replacing the joint speaker and the blind decorations, be sure to fix the bosses of them inside the box with an adhesive agent. (Figure 22)

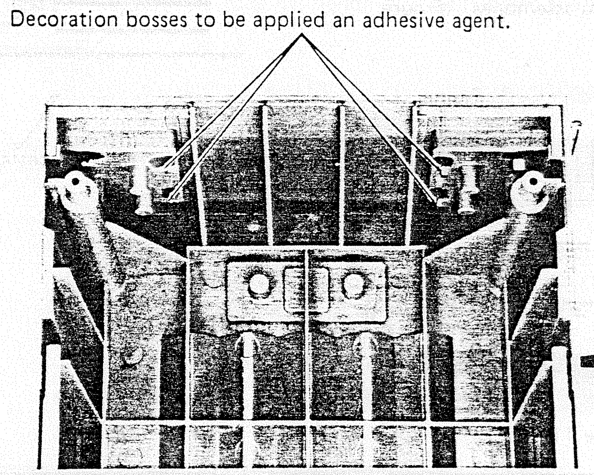

Decoration bosses to be applied an adhesive agent.

Figure 22

### ■ CAUTIO FOR SCREW REPLACEMENT

1. When replacing the screws Ⓢ retaining the lock slider bracket, do not use ones longer than 3ϕ x 6mm. (The longer ones may cause short circuiting with the P.C. Board.) (Figure 23)

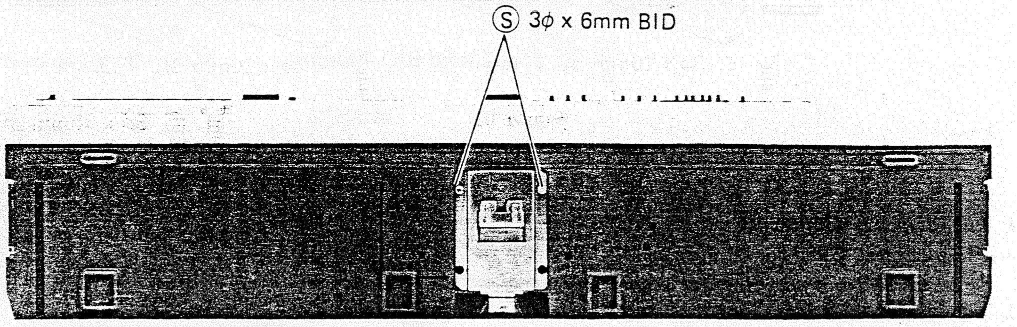
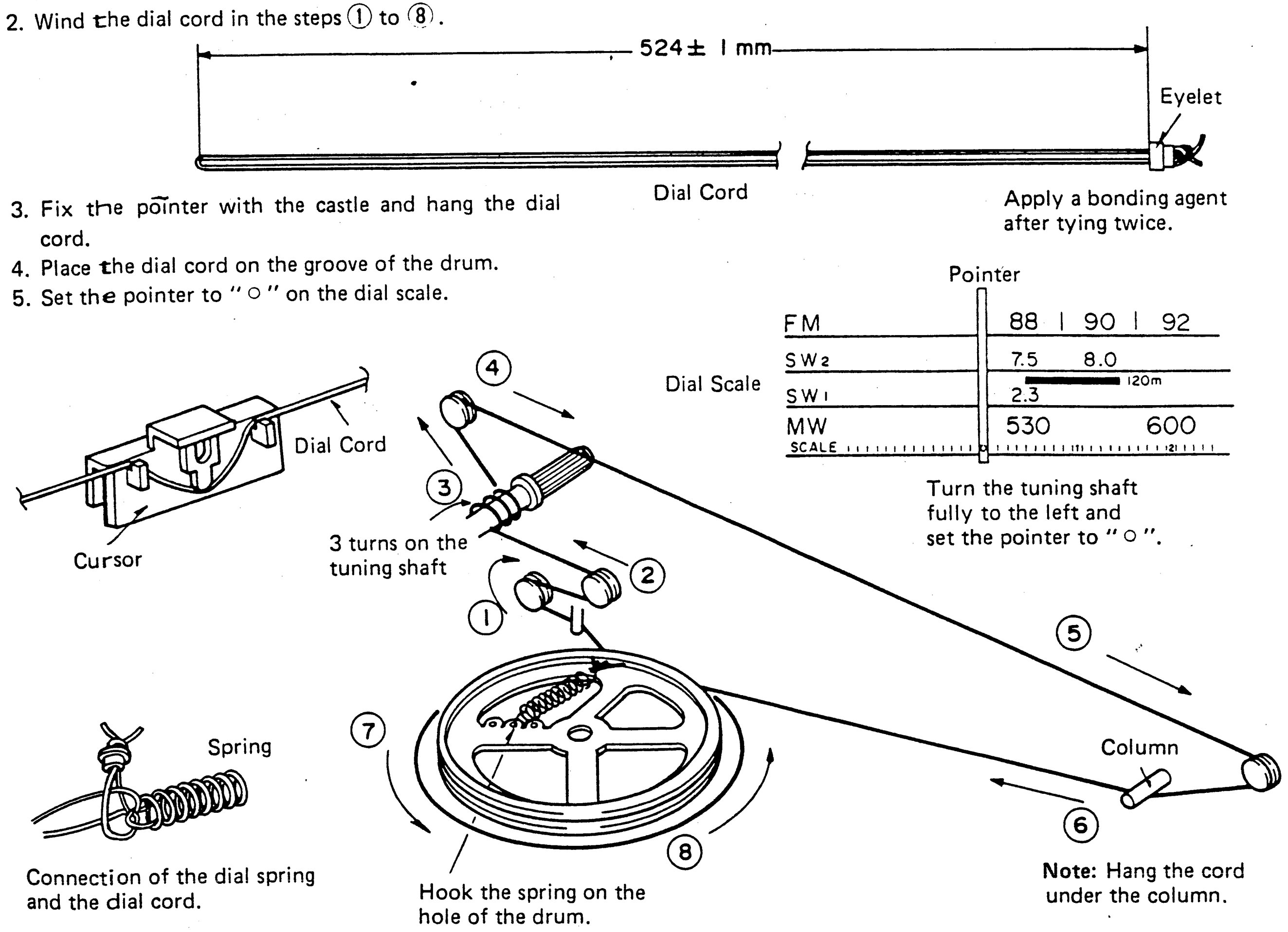


Figure 23

## 4. DIAL CORD RESTRINGING

**Procedures**

1. Thread the dial cord through the hole on the goove of the drum and hook the spring on the appointed hole.
2. Wind the dial cord in the steps ① to ⑧.
3. Fix the pointer with the castle and hang the dial cord.
4. Place the dial cord on the groove of the drum.
5. Set the pointer to " o " on the dial scale.


524± 1 mm
Eyelet
Dial Cord
Pointer
FM
SW2
SW1
MW
SCALE
88 | 90 | 92
7.5 8.0
120m
2.3
530 600
Dial Scale
Dial Cord
Cursor
3 turns on the tuning shaft
①
②
③
④
⑤
⑥
⑦
⑧
Spring
Column

Apply a bonding agent after tying twice.

Turn the tuning shaft fully to the left and set the pointer to " o ".

Connection of the dial spring and the dial cord.

Hook the spring on the hole of the drum.

Note: Hang the cord under the column.

Figure 24

## 5. HANDLE REMOVAL

- **HANDLE HOLDER REPLACEMENT**
  To replace the handle holder, detach the handle axis in the direction of Ⓐ , turn it in Ⓑ and pull it out in Ⓒ to remove the handle holder.

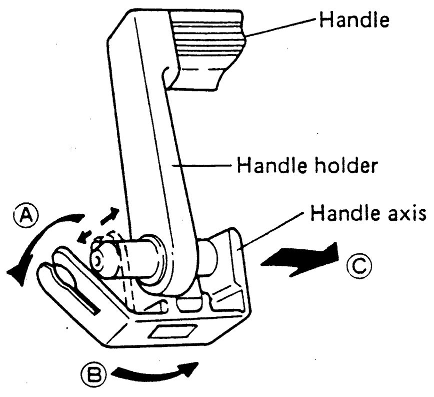

Handle
Handle holder
Handle axis
Ⓐ
Ⓑ
Ⓒ

Figure 25

## 6. BLOCK DIAGRAM

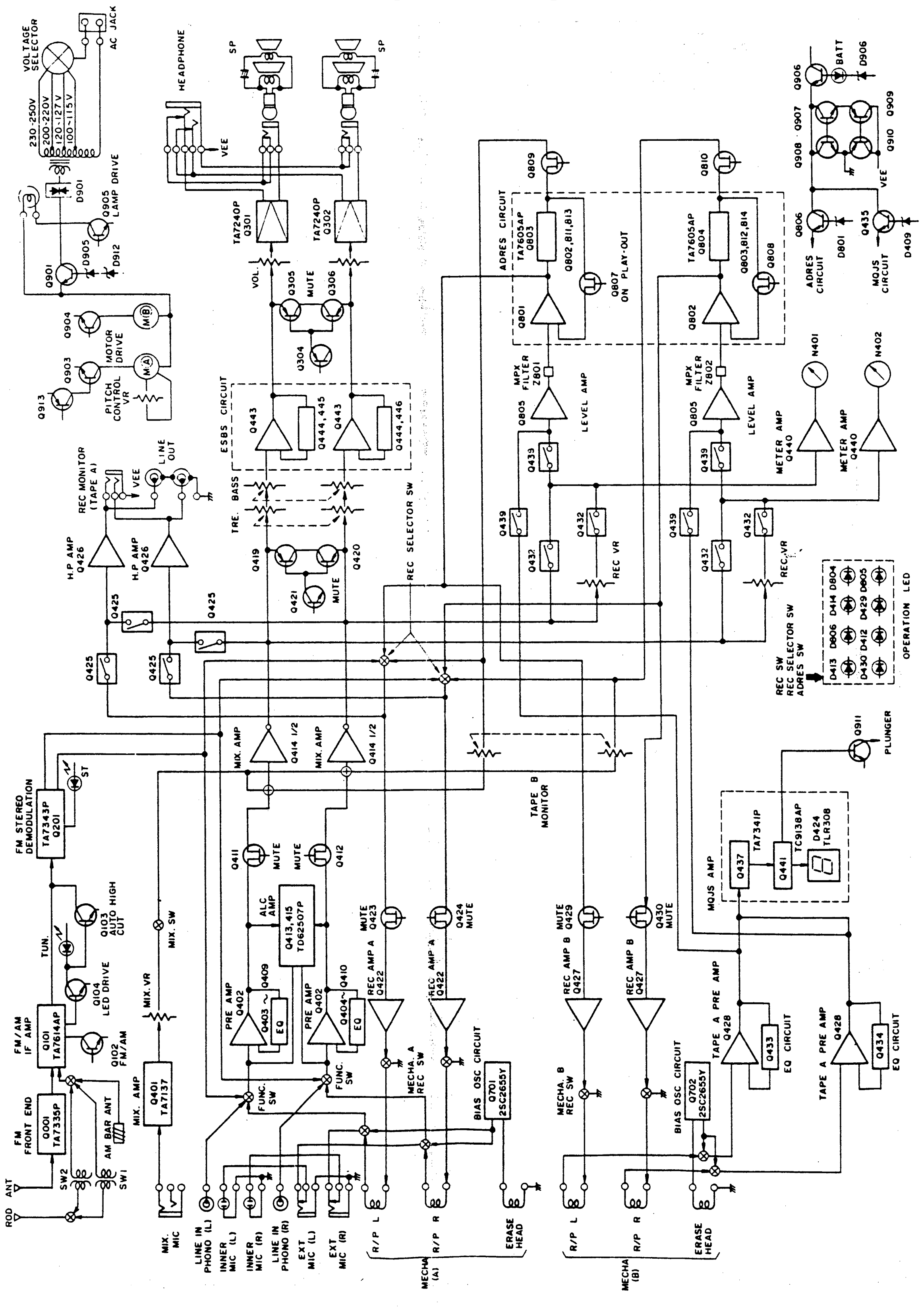

VOLTAGE SELECTOR
AC JACK
230-250V
200-220V
120-127V
100-115V
HEADPHONE
SP
SP
D901
D905 LAMP DRIVE
Q901
D912
Q904
Q903
Q913
MOTOR DRIVE
PITCH CONTROL VR
TA7240P Q301
TA7240P Q302
VOL
Q305 MUTE
Q306 MUTE
Q304
ESBS CIRCUIT
Q443
Q444,445
Q443
Q444,446
REC MONITOR (TAPE A)
LINE OUT
VEE
BASS
TRE.
H.P AMP Q426
H.P AMP Q426
Q419
Q420
Q421 MUTE
Q425
Q425
Q425
Q425
REC SELECTOR SW
ADRES CIRCUIT
TA7605AP Q803
Q802,811,813
Q801
Q809
Q807 ON PLAY-OUT
MPX FILTER Z801
Q805
LEVEL AMP
Q439
Q432
REC VR
Q810
TA7605AP Q804
Q803,812,814
Q808
Q802
MPX FILTER Z802
LEVEL AMP
Q439
Q432
REC VR
METER AMP Q440
METER AMP Q440
N401
N402
Q906
Q907
Q908
Q909
Q910
BATT
VEE
ADRES CIRCUIT
Q801
MOJS CIRCUIT
Q435
Q409
Q806
REC SW
REC SELECTOR SW
ADRES SW
OPERATION LED
Q911 PLUNGER
MIX. AMP
Q414 1/2
MIX. AMP
Q414 1/2
TAPE B MONITOR
FM STEREO DEMODULATION
TA7343P Q201
ST
Q411
MUTE
MUTE
Q412
ALC AMP
Q413,415 TD62507P
Q103 AUTO HIGH CUT
TUN.
Q104 LED DRIVE
FM/AM IF AMP
Q101 TA7614AP
Q102 FM/AM
FM FRONT END
Q001 TA7335P
AM BAR ANT
SW2
SW1
ROD ANT
MIX. SW
MIX. VR
MIX. AMP
Q401 TA7137
PRE AMP Q402
Q403 EQ
Q409
PRE AMP Q402
Q404 EQ
Q410
FUNC. SW
FUNC. SW
REC AMP A Q422
MUTE Q423
REC AMP A Q422
Q424 MUTE
MECHA. A REC SW
BIAS OSC CIRCUIT
Q701 2SC2655Y
MUTE B Q429
REC AMP B Q427
Q430 MUTE
REC AMP B Q427
MECHA. B REC SW
BIAS OSC CIRCUIT
Q702 2SC2655Y
TAPE A PRE AMP Q428
Q433 EQ CIRCUIT
TAPE A PRE AMP Q428
Q434 EQ CIRCUIT
MOJS AMP
Q437
TA7341P
Q441
TC9138AP
D424 TLR308
MIX. MIC
LINE IN PHONO (L)
INNER MIC (L)
INNER MIC (R)
LINE IN PHONO (R)
EXT MIC (L)
EXT MIC (R)
R/P L
R/P R
ERASE HEAD
MECHA (A)
R/P L
R/P R
ERASE HEAD
MECHA (B)

Figure 26

# 7. ADJUSTMENTS INSTRUCTIONS

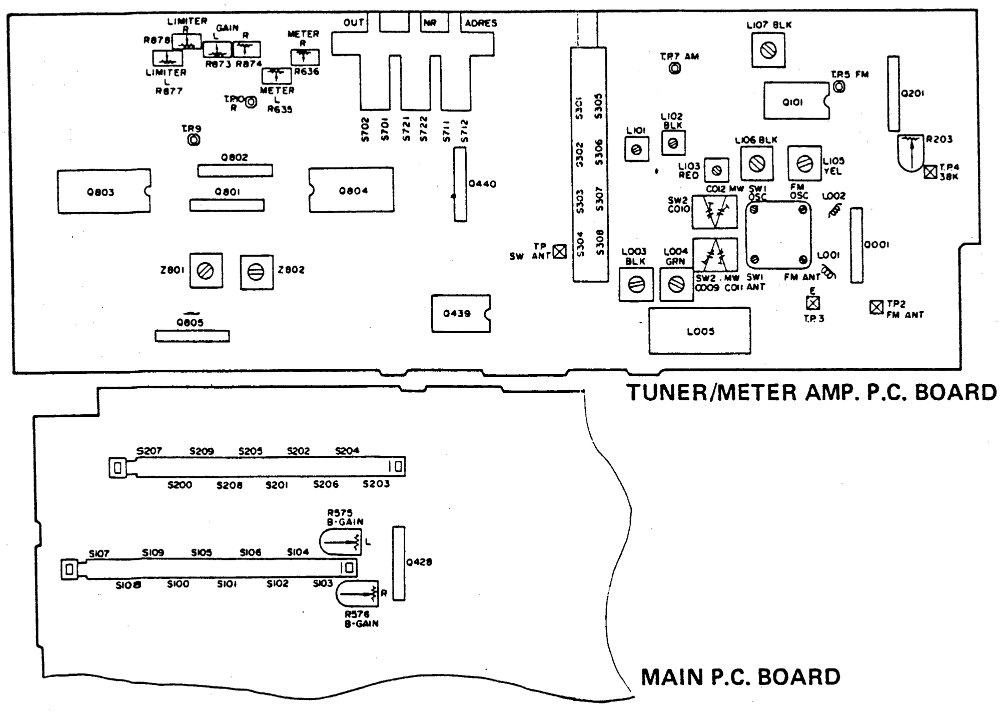

TUNER/METER AMP. P.C. BOARD
MAIN P.C. BOARD

Figure 27

**TEST EQUIPMENTS REQUIRED**

1. AM Signal Generator
2. FM Signal Generator
3. AM Sweep Generator
4. FM Sweep Generator
5. AM Test Loop Antenna
6. Frequency Counter
7. Oscilloscope
8. Dummy Load Resistor
9. Dummy Antenna
10. VTVM
11. Adjusting Screwdriver

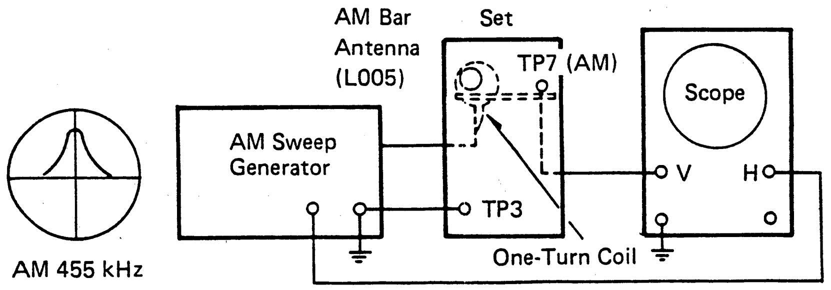

AM Bar
Antenna
(L005)
Set
TP7 (AM)
Scope
AM Sweep
Generator
TP3
V
H
One-Turn Coil
AM 455 kHz

Figure 28

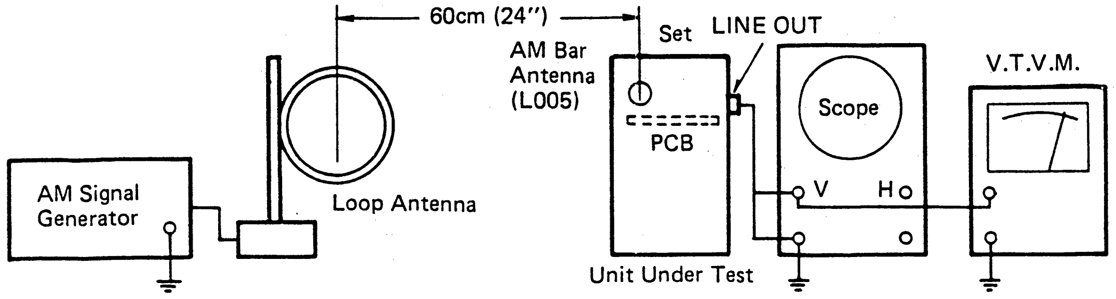

60cm (24")
Set
LINE OUT
AM Bar
Antenna
(L005)
PCB
Scope
V.T.V.M.
V
H
AM Signal
Generator
Loop Antenna
Unit Under Test

Figure 29

**MW ALIGNMENT CHART** (See Figure 28, Figure 29) Standard test frequency 400Hz and modulation 30%

| Band | Step | Signal Generator Frequency | Radio Dial Setting | Adjustment | Remarks |
|---|---|---|---|---|---|
| IF | 1 | 455 kHz | Tuning Gang Fully Counter-clockwise (Lowest Frequency) | L105,<br>L106 | Adjust for maximum indication. |
| MW | 2 | 510 kHz | Tuning Gang Fully Counter-clockwise (Lowest Frequency) | OSC. Coil L103 (MW) | Adjust for maximum indication. |
| | 3 | 1650 kHz | Tuning Gang Fully clockwise (Highest Frequency) | OSC. Trim C012 | Adjust for maximum indication. |
| | 4 | Repeat steps 2 and 3 as required. | | | |
| | 5 | 600 kHz | Tune to Signal. | Ant. Coil L005 | Adjust for maximum indication. |
| | 6 | 1400 kHz | Tune to Signal. | Ant. Trim. C011 | Adjust for maximum indication. |
| | 7 | Repeat steps 5 and 6 as required. | | | |

**SW ALIGNMENT CHART** (See Figure 30)

| Band | Step | Signal Generator Frequency | Radio Dial Setting | Adjustment | Remarks |
|---|---|---|---|---|---|
| SW1 | 1 | 2.25 MHz | Tuning Gang Fully Counter-clockwise (Lowest Frequency) | OSC. Coil L102 (SW1) | Adjust for maximum indication. |
| | 2 | 7.7 MHz | Tuning Gang Fully Clockwise (Highest Frequency) | OSC. Trim. C008 | Adjust for maximum indication. |
| | 3 | Repeat steps 1 and 2 as required. | | | |
| | 4 | 3 MHz | Tune to Singal. | Ant. Coil L004 (SW1) | Adjust for maximum indication. |
| | 5 | 7 MHz | Tune to Signal. | Ant. Trim. C007 | Adjust for maximum indication. |
| | 6 | Repeat steps 4 and 5 as required. | | | |
| SW2 | 1 | 7.35 MHz | Tuning Gang Fully Counter-clockwise (Lowest Frequency) | OSC. Coil L101 (SW2) | Adjust for maximum indication. |
| | 2 | 22.5 MHz | Tuning Gang Fully Clockwise (Highest Frequency) | OSC. Trim. C010 | Adjust for maximum indication. |
| | 3 | Repeat steps 1 and 2 as required. | | | |
| | 4 | 9 MHz | Tune to Signal. | Ant. Coil L003 (SW2) | Adjust for maximum indication. |
| | 5 | 20 MHz | No Adjustment | Ant. Trim. C009 | Adjust for maximum indication. |
| | 6 | Repeat steps 4 and 5 as required. | | | |

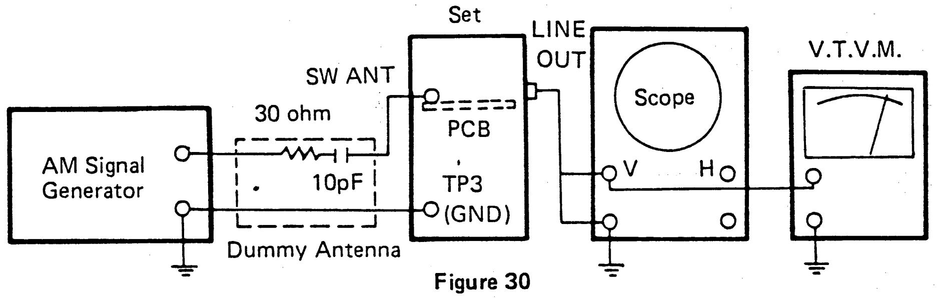

Set
LINE OUT
V.T.V.M.
SW ANT
30 ohm
AM Signal Generator
10pF
PCB
TP3 (GND)
Scope
V
H
Dummy Antenna

Figure 30

## FM-IF ALIGNMENT CHART

| Step | Signal coupling | Equip. | Tuning | Connection | Adjust. point | Remarks |
|---|---|---|---|---|---|---|
| | Connect sweep generator output to a three-turn loop antenna of 10cm diameter. | Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker. | Tuning Knob fully counter-clockwise (Lowest Frequency.) | Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H". | L104<br>L107 | Turn the coil L107 fully counterclockwise to obtain a single peak. Adjust coil L104 for highest single peak is obtained. Figure 31. Finally turn the coil L107 to obtains S curve. See Figure 32. |

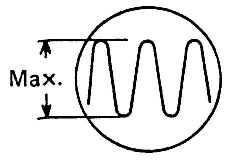


Figure 31

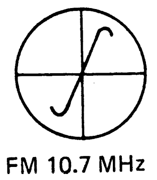


Figure 32

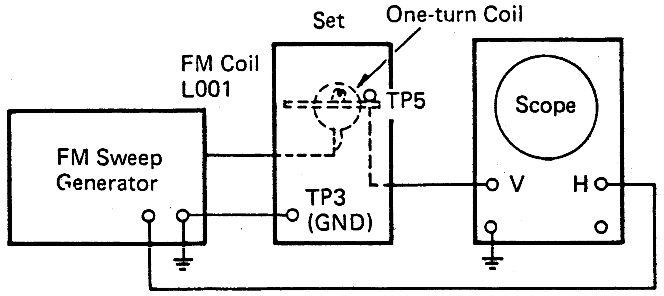

Set
One-turn Coil
FM Coil L001
TP5
Scope
FM Sweep Generator
TP3 (GND)
V
H

Figure 33

## FM-RF ALIGHMENT CHART (See Figure 34)

| Step | Signal Generator | Radio Dial Setting | Adjustment | Remarks |
|---|---|---|---|---|
| 1 | 87.2 MHz | Tuning Knob fully Counterclockwise (Lowest Frequency) | OSC. Coil L002 | Adjust for maximum output indication. |
| 2 | 109 MHz | Tuning Knob fully Clockwise (Highest Frequency) | OSC. Trim. C006 | Adjust for maximum output indication. |
| 3 | Repeat steps 1 and 2 as required. | | | |
| 4 | 90 MHz | Tune to signal | Ant. Coil L001 | Adjust for maximum output indication. |
| 5 | 106 MHz | | Ant. Trim. C005 | |
| 6 | Repeat steps 4 and 5 as required. | | | |

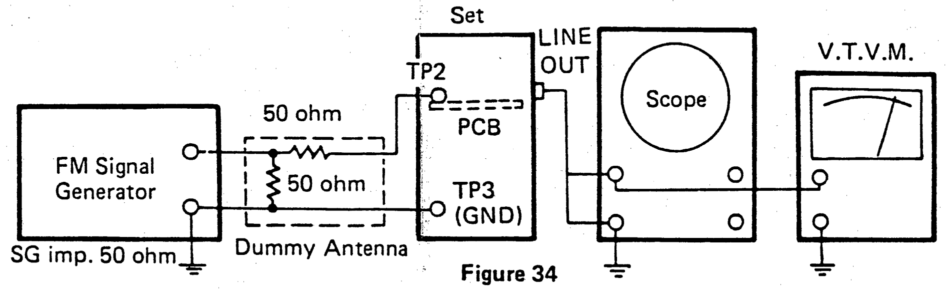

Set
LINE OUT
V.T.V.M.
TP2
50 ohm
FM Signal Generator
PCB
Scope
50 ohm
TP3 (GND)
SG imp. 50 ohm
Dummy Antenna

Figure 34

## FM MPX (See Figure 35)

| Step | Alignment | Connections | | Tuning Dial Setting | Adjustment | Remarks |
|---|---|---|---|---|---|---|
| | | INPUT | OUTPUT | | | |
| 1 | Free Run 38 kHz | FM Frequency 98 MHz 1 mV | Connect frequency counter or synchroscope to TP. See Figure 35. | None | R203 | Obtain 38 kHz on the frequency counter. |

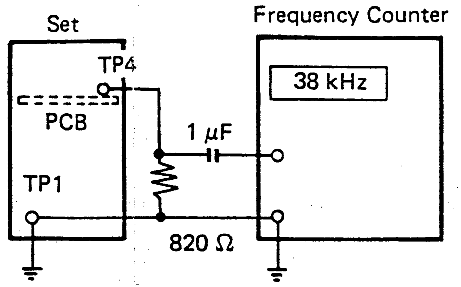

Set
Frequency Counter
TP4
38 kHz
PCB
1 μF
TP1
820 Ω

Figure 35

RT-S983 RT-S983

# 8. SCHEMATIC DIAGRAM

| Note | | | Position |
|---|---|---|---|
| 1. | S10: | Key Switch, Dial Light | OFF |
| 2. | S11: | Key Switch, Pre-set | OFF |
| 3. | S12: | Key Switch, Editor A | OFF |
| 4. | S13: | Key Switch, Editor B | OFF |
| 5. | S111 ∿ 114: | Push Switch (5 ganged)<br>TAPE A | TAPE |
| | S121 ∿ 124: | Push Switch (5-ganged)<br>PHONO | OFF |
| | S131 ∿ 134: | Push Switch (5-ganged)<br>AUX | OFF |
| | S141 ∿ 144: | Push Switch (5-ganged)<br>RADIO | OFF |
| | S211: | Push Switch (5-ganged)<br>MIXING | OFF |
| 6. | S311, 312: | Push Switch (6-ganged)<br>FM | OFF |
| | S321, 322: | Push Switch (6-ganged)<br>AM | AM |
| | S331, 332: | Push Switch (6-ganged)<br>FM Wireless | OFF |
| | S701, 702: | Push Switch (6-ganged)<br>ADRES IN | OFF |
| | S711, 712: | Push Switch (6-tanged)<br>NR IN | OFF |
| | S721, 722: | Push Switch (6-ganged)<br>ADRES OUT | OFF |

| Note | | | Position |
|---|---|---|---|
| 7. | S100 ∿ 109: | Slide Switch<br>REC/PLAY(DECK A) | PLAY |
| 8. | S200 ∿ 209: | Slide Switch<br>REC/PLAY (DECK B) | PLAY |
| 9. | S301 ∿ 304: | Lever Switch<br>FUNCTION | FUNCTION |
| 10. | S401, 402: | Lever Switch<br>BEAT SELECT | [illegible] |
| 11. | S501 ∿ 504: | Lever Switch TAPE A | N[illegible] |
| 12. | S601 ∿ 604: | Lever Switch TAPE B | Normal |
| 13. | S801, 802 | Push Switch (4-ganged)<br>CONTINUOUS/<br>INDIVIDUAL | INDIVIDUAL |
| 14. | S9: | Push Switch (4-ganged)<br>POWER | ON |
| 15. | S41: | Push Switch (4-ganged)<br>STEREO/MONO | MONO |
| 16. | S51: | Push Switch (4-ganged)<br>STEREO/STEREO WIDE | STEREO WIDE |
| 17. | S901: | Leaf Switch | FF/REW |
| 18. | S902, 907: | Leaf Switch | MECHANISM<br>POWER |
| 19. | S903, 908: | Leaf Switch | REC-STOP |
| 20. | S904, 909: | Leaf Switch | HEAD PLATE |
| 21. | S905, 910: | Leaf Switch | PAUSE |
| 22. | S906: | Leaf Switch | MQ |

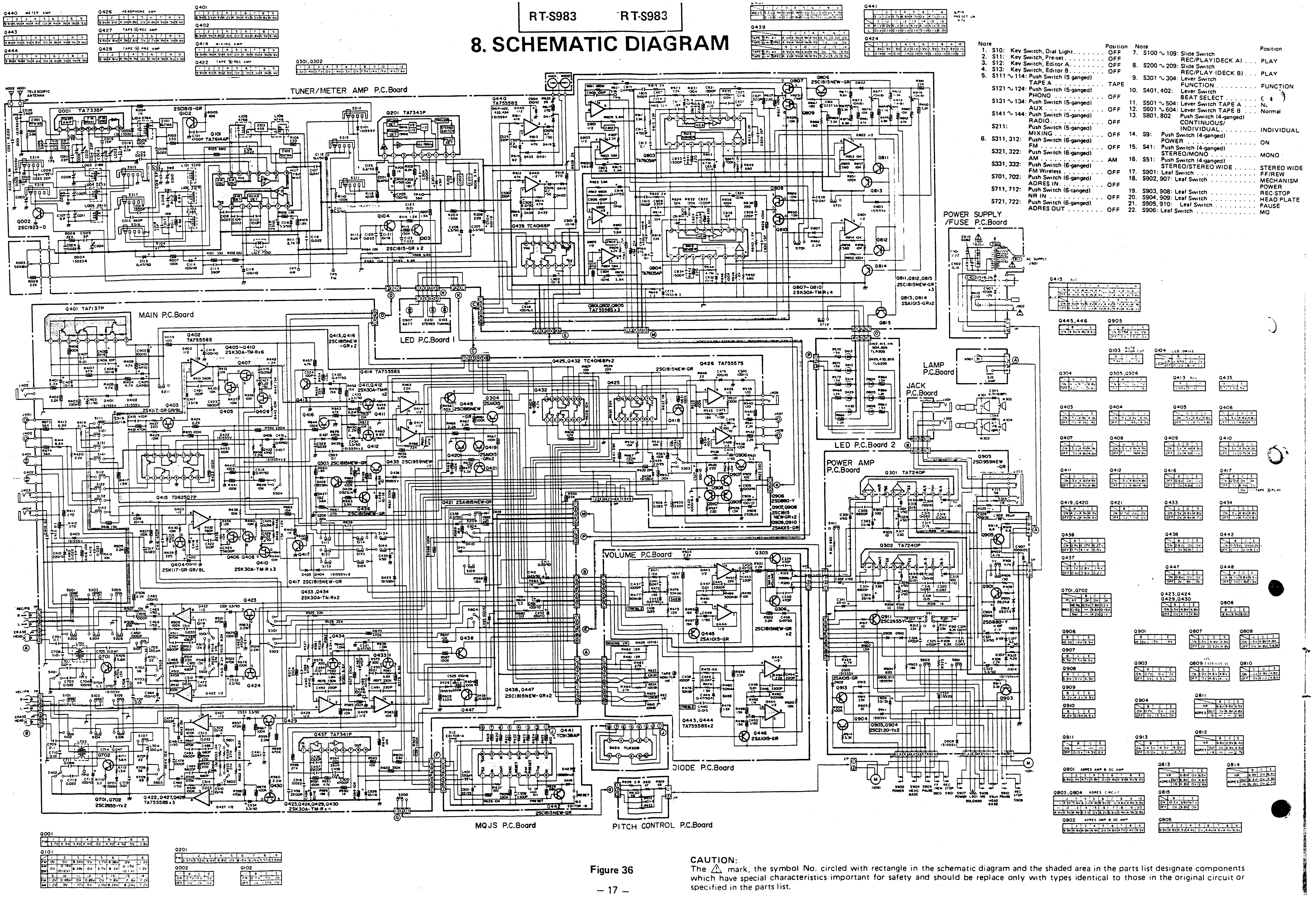

TUNER/METER AMP P.C.Board
MAIN P.C.Board
LED P.C.Board I
LED P.C.Board 2
POWER SUPPLY /FUSE P.C.Board
LAMP P.C.Board
JACK P.C.Board
POWER AMP P.C.Board
VOLUME P.C.Board
DIODE P.C.Board
MQJS P.C.Board
PITCH CONTROL P.C.Board
TELESCOPIC ANTENNA
AC SUPPLY J901

Figure 36

**CAUTION:**
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

# 9.ELECTRICAL PARTS LOCATIONS(MAIN)

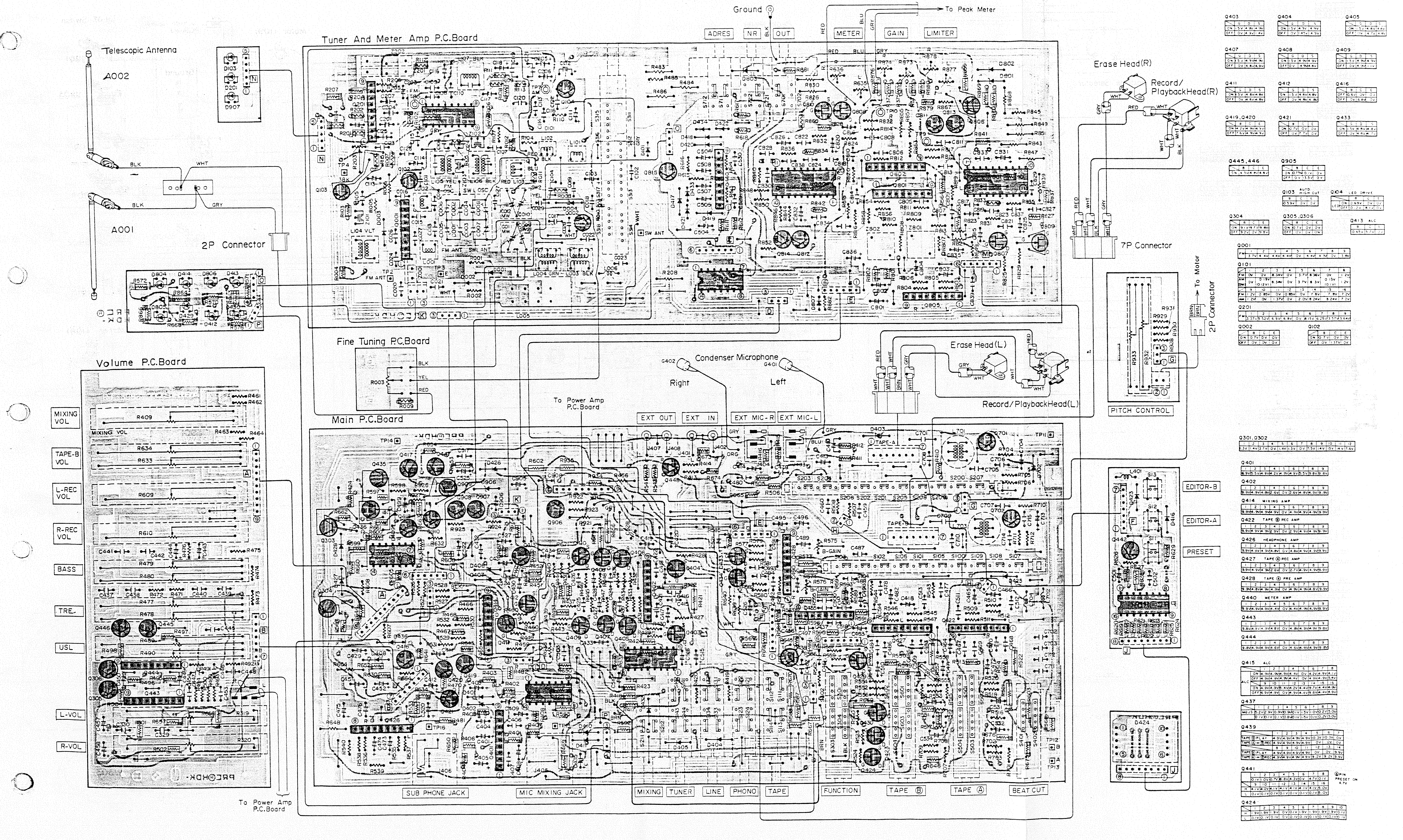

Ground
To Peak Meter
ADRES
NR
BLK
OUT
RED
METER
BLU
GRY
GAIN
LIMITER
Tuner And Meter Amp P.C.Board
Telescopic Antenna
A002
A001
BLK
WHT
GRY
2P Connector
Erase Head(R)
Record/PlaybackHead(R)
7P Connector
To Motor
2P Connector
PITCH CONTROL
Fine Tuning P.C.Board
R003
Erase Head(L)
Condenser Microphone
G402
G401
Right
Left
Record/PlaybackHead(L)
To Power Amp P.C.Board
Main P.C.Board
EXT OUT
EXT IN
EXT MIC-R
EXT MIC-L
Volume P.C.Board
MIXING VOL
TAPE-B VOL
L-REC VOL
R-REC VOL
BASS
TRE.
USL
L-VOL
R-VOL
EDITOR-B
EDITOR-A
PRESET
SUB PHONE JACK
MIC MIXING JACK
MIXING
TUNER
LINE
PHONO
TAPE
FUNCTION
TAPE Ⓑ
TAPE Ⓐ
BEAT CUT
To Power Amp P.C.Board
D424

Figure 37

# 10. ELECTRICAL PARTS LOCATIONS

Q406

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.7V |

Q435

| B | C | E |
|---|---|---|
| 5.7V | 9.9V | 5V |

Q410 PHONO

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 0.7V | 4.9V |

Q417

| | B | C | E |
|---|---|---|---|
| ON | 0.72V | 0V | 0V |
| OFF | 0V | 8.4V | 0V |

0V ----TAPE Ⓐ PLAY

Q434

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.7V | 4.8V |

Q901

| B | C | E |
|---|---|---|
| 14.35V | 15V | 14V |

Q807

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 0.52V | 4.8V |

Q808

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 0.65V |

Q903

| | B | C | E |
|---|---|---|---|
| ON | 0.7V | 0V | 0V |
| OFF | 0V | 13.5V | 0V |

Q809 ON TAPE Ⓐ PLAY

| | G | D | S |
|---|---|---|---|
| ON | 1.0V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.1V |

Q810

| | G | D | S |
|---|---|---|---|
| ON | 1.0V | 4.8V | 4.8V |
| OFF | 0V | 4.1V | 4.8V |

Q904

| | B | C | E |
|---|---|---|---|
| ON | 0.7V | 0V | 0V |
| OFF | 0V | 13.5V | 0V |

Q811

| | | B | C | E |
|---|---|---|---|---|
| NR | | 6.6V | 9.9V | 6.5V |
| ADRES | OUT | 0V | 9.9V | 4.8V |
| | IN | — | — | 2.6V |

Q913

| | B | C | E |
|---|---|---|---|
| ON | 14.3V | 14.5V | 15.0V |
| OFF | 15.0V | 0V | 14.7V |

Q812

| | | B | C | E |
|---|---|---|---|---|
| NR | | 6.6V | 9.9V | 6.4V |
| ADRES | OUT | 0V | 9.9V | 4.9V |
| | IN | — | — | 2.7V |

Q438

| | B | C | E |
|---|---|---|---|
| ON | 0.6V | 0V | 0V |
| OFF | 0V | 13.3V | 0V |

Q442

| | B | C | E |
|---|---|---|---|
| ON | 0.35V | 0V | 0.2V |
| OFF | 0.1V | 0.1V | 4.3V |

Q447

| | B | C | E |
|---|---|---|---|
| ON | 0.6V | 0V | 0V |
| OFF | 0V | 8V | 0V |

Q448

| | B | C | E |
|---|---|---|---|
| ON | 8.7V | 9.8V | 9.6V |
| OFF | 2.3V | 1.8V | 1.8V |

Q423, Q424
Q429, Q430

| | B | C | E |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.1V | 4.8V |

Q806

| B | C | E |
|---|---|---|
| 8.6V | 9.9V | 8.0V |

Q801 ADRES AMP & DC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 1.4V | 4.7V | 4.8V | 0V | 4.9V | 4.9V | 4.9V | 9.9V |

Q803, Q804 ADRES CIRCUIT

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| 0V | 4.9V | 5.6V | 6.2V | 4.9V | 9.9V | 5.1V | 4.6V | 4.9V | 4.9V |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 4.9V | 5.5V | 4.9V | 5.5V | 0V | 6.2V | 5.6V | 5.4V | 4.9V | 9.9V |

Q802 ADRES AMP & DC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.9V | 0V | 4.6V | 4.7V | 1.4V | 9.9V |

Q813

| | | B | C | E |
|---|---|---|---|---|
| NR | | 6.8V | 0V | 6.5V |
| ADRES | OUT | 6.8V | 0V | 4.8V |
| | IN | 6.8V | 0V | 2.6V |

Q814

| | | B | C | E |
|---|---|---|---|---|
| NR | | 6.9V | 0V | 6.4V |
| ADRES | OUT | 6.9V | 0V | 4.9V |
| | IN | 6.9V | 0V | 2.7V |

Q815

| | B | C | E |
|---|---|---|---|
| ON | 10.3V | 9.9V | 9.7V |
| OFF | 0V | 9.9V | 0V |

Q805

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.4V | 0V | 4.4V | 4.9V | 4.9V | 9.9V |

Q436

| | B | C | E |
|---|---|---|---|
| ON | 0.9V | 0.27V | 0.27V |
| OFF | 0.7V | 4.1V | 0.6V |

Q437

| | B | C | E |
|---|---|---|---|
| ON | 1.3V | 0.8V | 0.6V |
| OFF | 0.6V | 3.6V | 0.2V |

Q436 is ON, Q437 OFF in normal operation. Q436 is OFF and Q437 ON in MUTING due to reduced voltage. Measured at 7V.

Q701, Q702

| | | B | C | E |
|---|---|---|---|---|
| PLAY | | 0V | 0V | 0V |
| REC | METAL | 0.5V | 7.8V | 0.2V |
| | CrO2 | — | 5.6V | 0.15V |
| | Nor | — | 4.2V | 0.1V |

Q906

| B | C | E |
|---|---|---|
| 10.3V | 14V | 9.9V |

Q907

| B | C | E |
|---|---|---|
| 5.5V | 5.5V | 4.9V |

Q908

| B | C | E |
|---|---|---|
| 5.9V | 9.1V | 4.9V |

Q909

| B | C | E |
|---|---|---|
| 4.2V | 4.2V | 4.9V |

Q910

| B | C | E |
|---|---|---|
| 4.2V | 0.15V | 4.9V |

Q907–Q910: Center potentioal Circuit

Q911

| | B | C | E |
|---|---|---|---|
| ON | — | — | — |
| OFF | 0.15V | 14.5V | 0V |

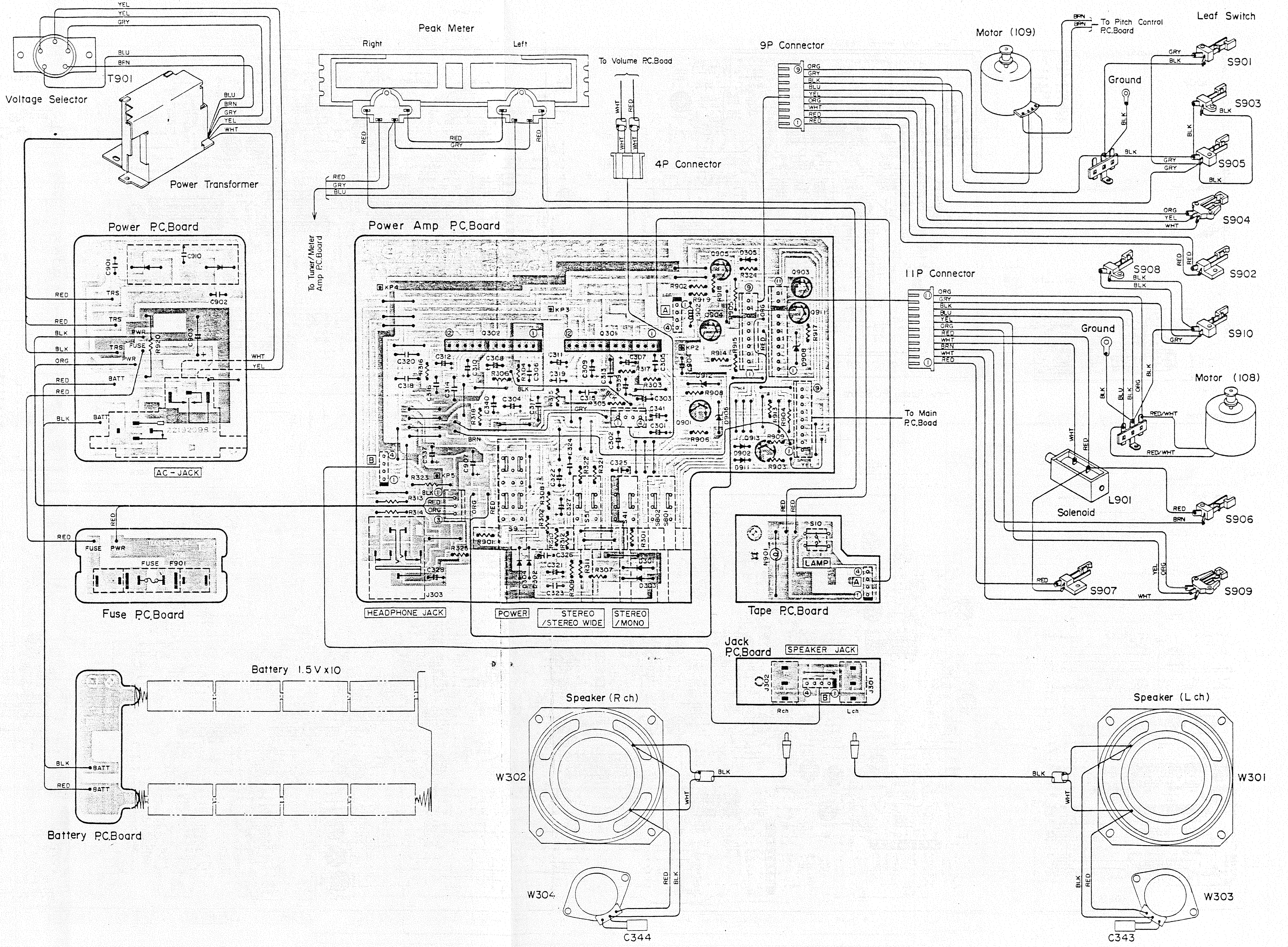
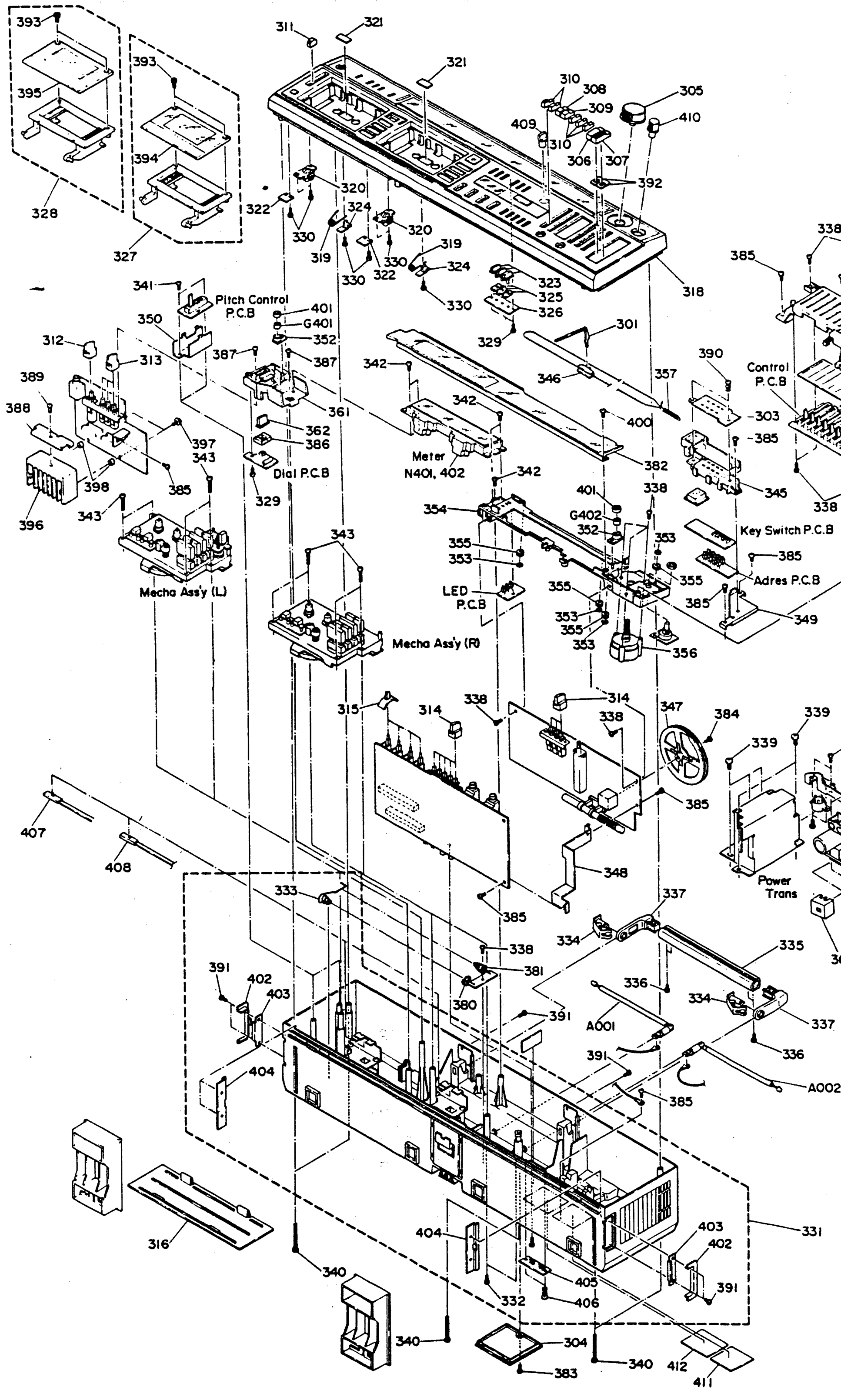

Voltage Selector
T901
YEL
YEL
GRY
BLU
BRN
BLU
BRN
GRY
YEL
WHT
Power Transformer
Peak Meter
Right
Left
RED
GRY
To Volume P.C.Boad
WHT
RED
4P Connector
9P Connector
ORG
GRY
BLK
BLU
YEL
ORG
WHT
RED
RED
Motor (109)
BRN
BRN
To Pitch Control P.C.Board
Leaf Switch
S901
Ground
S903
S905
S904
S902
S908
S910
GRY
BLK
ORG
YEL
WHT
To Tuner/Meter Amp P.C.Board
Power P.C.Board
C901
C910
C902
C903
R920
TRS
PWR
FUSE
BATT
RED
BLK
ORG
WHT
YEL
AC-JACK
Power Amp P.C.Board
KP4
KP3
KP2
KP5
Q302
Q301
Q305
Q903
Q904
Q911
Q901
Q902
Q908
Q906
Q909
Q912
Q913
R902
R919
R914
R915
R917
R918
R908
R906
R903
R904
R905
R913
R316
R318
R317
R303
R304
R306
R312
R313
R314
R323
R326
R901
C312
C318
C320
C368
C311
C319
C313
C315
C309
C307
C305
C303
C304
C340
C341
C301
C302
C324
C325
C326
C321
C323
C327
C328
C329
J303
S9
S1
S3
HEADPHONE JACK
POWER
STEREO /STEREO WIDE
STEREO /MONO
11P Connector
To Main P.C.Boad
Ground
Motor (108)
RED/WHT
Solenoid
L901
S906
S907
S909
Tape P.C.Board
S10
N901
LAMP
Fuse P.C.Board
FUSE
PWR
FUSE F901
Jack P.C.Board
SPEAKER JACK
J302
J301
Rch
Lch
Battery 1.5V x10
BATT
Battery P.C.Board
Speaker (R ch)
W302
W304
C344
Speaker (L ch)
W301
W303
C343
BLK
WHT
RED

Figure 38

## 11-1. EXPLODED VIEW (CABINET)



NOTE: Parts excluded in the parts list are not available as replacement parts.

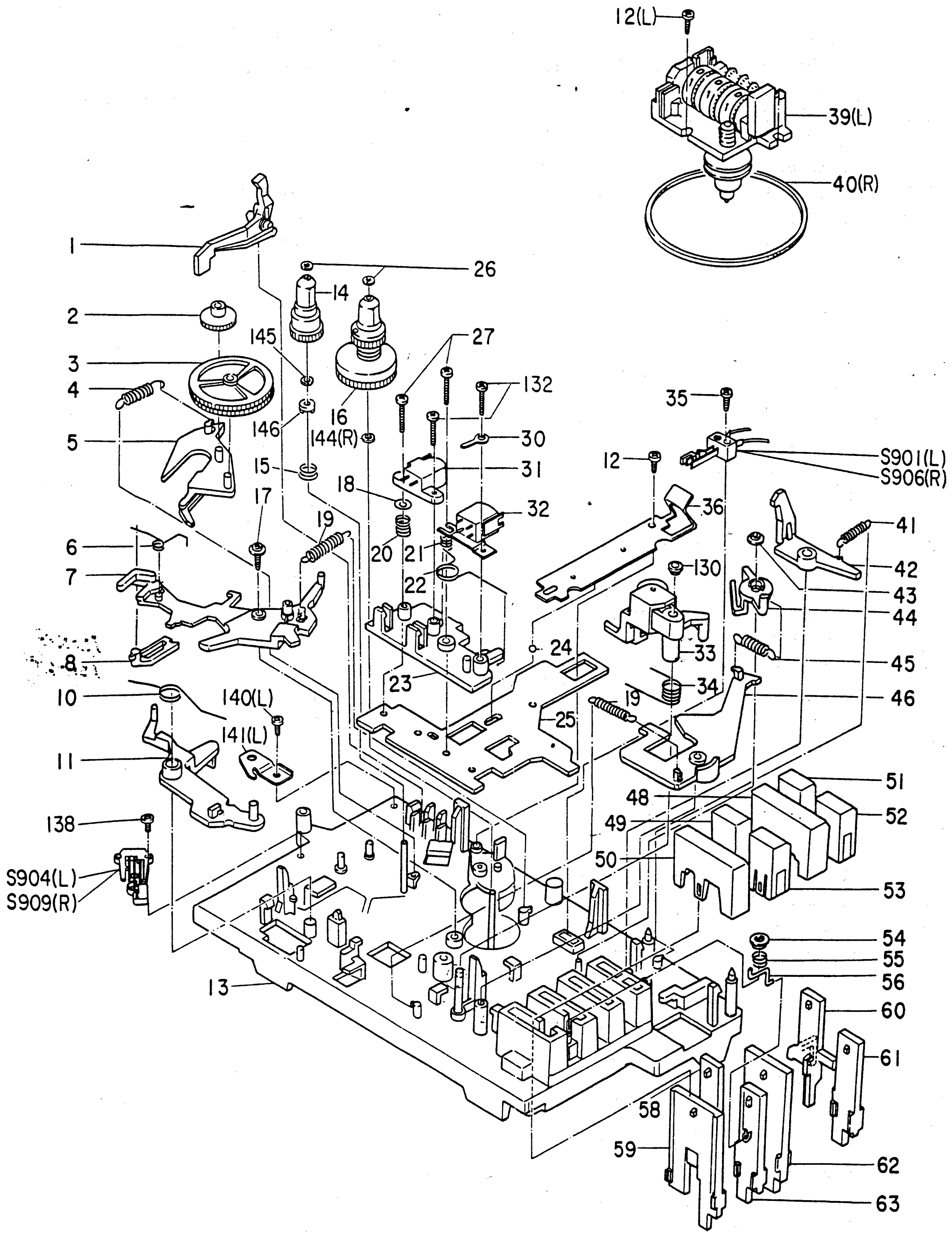
Figure 39

## 11-2. EXPLODED VIEW (CABINET) PARTS LIST

| Symbol No. | Part No. | Description |
|---|---|---|
| 301 | 22741381 | Pointer |
| 303 | 25808175 | Decoration, Adres LED |
| 304 | 25881588 | Back Cover Ass'y |
| 305 | 25837666 | Knob, Tuning |
| 306 | 25837908 | Knob, Main Volume, L |
| 307 | 25837907 | Knob, Main Volume, R |
| 308 | 25837771 | Knob, Record Volume, L |
| 309 | 25837772 | Knob, Record Volume, R |
| 310 | 25837773 | Knob, Slide |
| 311 | 25837774 | Knob, Tape Speed Control |
| 312 | 25837776 | Button, Power |
| 313 | 25837777 | Button, Push |
| 314 | 25837779 | Knob, Push |
| 315 | 25837781 | Knob, Lever |
| 316 | 25881189 | Cover, Battery |
| 318 | 25881682 | Cabinet Ass'y, Front |
| 319 | 25775233 | Spring, Torsion |
| 320 | 25791314 | Damper Unit |
| 321 | 25824247 | Reflector |
| 322 | 25835464 | Bracket, Cassette |
| 323 | 25837778 | Knob, MQJS |
| 324 | 25846568 | Bracket, Shaft |
| 325 | 25857063 | Cushion, MQJS |
| 326 | 25857064 | Plate, MQJS |
| 327 | 25881404 | Cover Ass'y, Cassette, R |
| 328 | 25881405 | Cover Ass'y, Cassette, L |
| 329 | 22701326 | Screw, 3ϕ x 8mm, BID-TP |
| 330 | 22707118 | Screw, 3ϕ x 12mm, BID-TP |
| 331 | 25881683 | Cabinet Ass'y, Back |
| 332 | 22701452 | Screw, 3ϕ x 12mm, BID |
| 333 | 25777117 | Spring, Battery |
| 334 | 25835439 | Shaft, Handle |
| 335 | 25835438 | Handle |
| 336 | 22707693 | Screw, 3ϕ x 8mm, BID |
| 337 | 25835437 | Holder, Handle |
| 338 | 22707165 | Screw, 3ϕ x 10mm, BID-TP |
| 339 | 22701438 | Screw, 4ϕ x 10mm, BID-TP |
| 340 | 22701334 | Screw, 3ϕ x 35mm |
| 341 | 22707116 | Screw, 3ϕ x 10mm, BID-TP |
| 342 | 22707117 | Screw, 3ϕ x 12mm, BID-TP |
| 343 | 22707531 | Screw, 3ϕ x 20mm, BID-TP |
| 344 | 22714156 | Frame, Variable Resistor |
| 345 | 22714161 | Frame, ADRES |
| 346 | 22741382 | Cursor |
| 347 | 22742219 | Drum, Dial |
| 351 | 25857065 | Sheet, Variable Resistor |
| 352 | 25857111 | Cushion, Microphone |
| 353 | 22702125 | Nut, 2.4ϕ |
| 354 | 22714154 | Frame, Tuner |
| 355 | 22742162 | Pulley, Dial |
| 356 | 22749322 | Tuning Shaft |

| Symbol No. | Part No. | Description |
|---|---|---|
| 357 | 25771548 | Spring, Dial Drum |
| 360 | 22167688 | Back Cover, Jack |
| 361 | 22714155 | Frame, Level Meter |
| 362 | 25837775 | Knob, Dial Light |
| 363 | 22707536 | Screw, 3ϕ x 10mm, BID |
| 380 | 25772570 | Spring, Battery |
| 381 | 25772571 | Spring, Battery |
| 382 | 25881586 | Dial Scale Ass'y |
| 383 | 22707382 | Screw, 3ϕ x 10mm, BID |
| 384 | 22707473 | Screw, 2.6ϕ x 6mm, BID |
| 385 | 22707066 | Screw, 3ϕ x 6mm |
| 387 | 22701325 | Screw, 3ϕ x 8mm, BID |
| 389 | 22701452 | Screw, 3ϕ x 12mm, BID |
| 390 | 22705026 | Rivet, 3ϕ x 6.5mm |
| 391 | 22701457 | Screw, 3ϕ x 6mm, BID |
| 392 | 20748046 | Spacer |
| 393 | 22707781 | Decoration Screw |
| 397 | 22707456 | Screw, 3ϕ x 8mm, FLDT |
| 399 | 22707800 | Screw, 3ϕ x 12mm, 2DTOVL |
| 400 | 22707118 | Screw, 3ϕ x 12mm, BID-TP |
| 401 | 22758394 | Cap, Microphone |
| 405 | 22162461 | Terminal, 2P |
| 406 | 22705022 | Rivet, 3ϕ x 5.5mm |
| 407 | 22196028 | Remote Wire (LONG) |
| 408 | 22196029 | Remote Wire (SHORT) |
| 409 | 25837906 | Knob, Band Select |
| 410 | 25837911 | Knob, Fine Tuning |
| 411 | 25808360 | Nameplate |
| 412 | 25808363 | Plate, Caution |

# 12-1. EXPLODED VIEW MECHANISM (UPPER)


12(L)
39(L)
40(R)
1
2
3
4
5
6
7
8
10
11
138
S904(L)
S909(R)
13
26
14
145
27
132
16
146
144(R)
30
31
15
17
18
19
20
21
22
32
35
12
S901(L)
S906(R)
36
41
42
43
44
130
33
34
45
46
24
23
25
19
140(L)
141(L)
51
52
48
49
50
53
54
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56
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61
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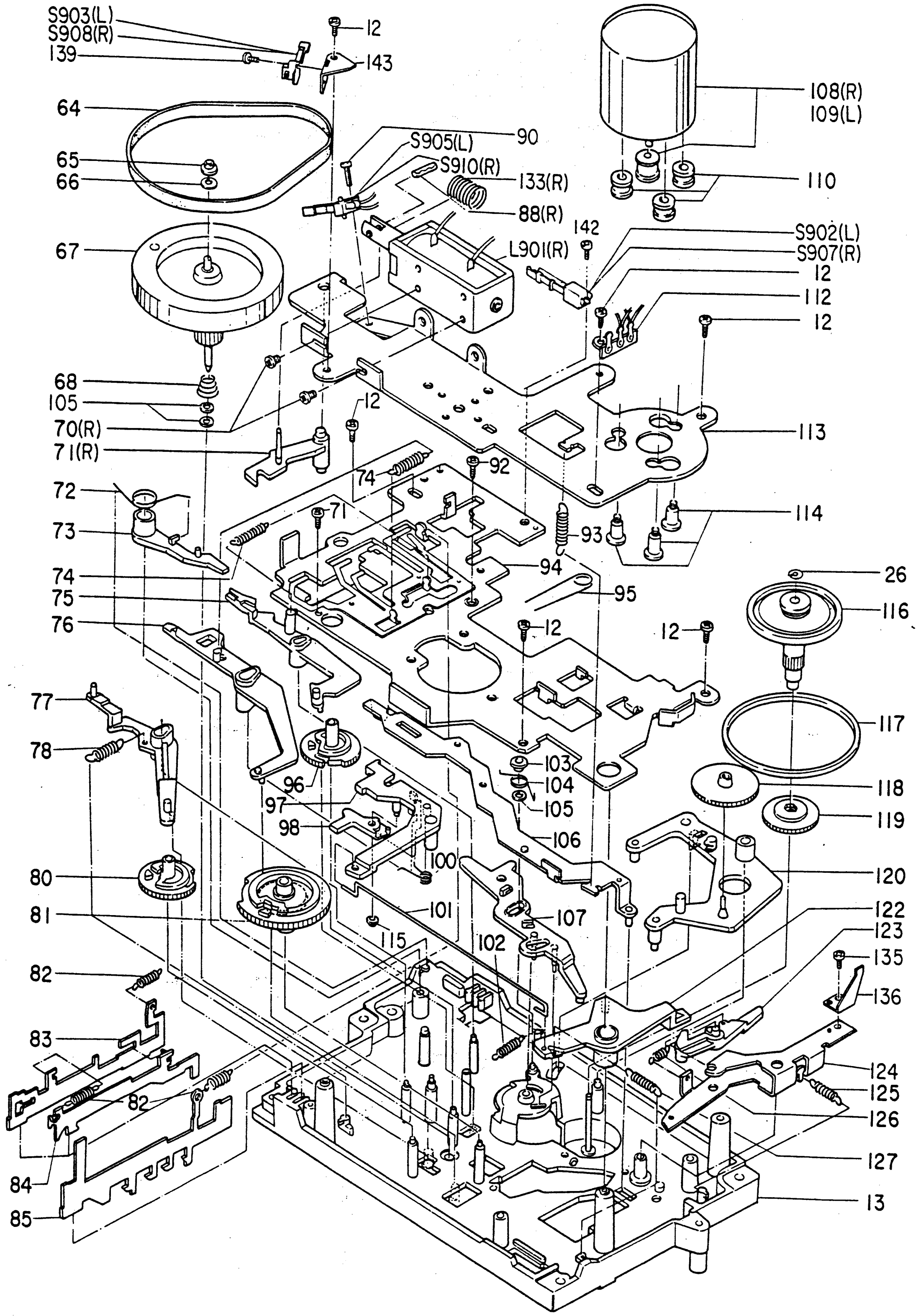
62
63

NOTE: Parts excluded in the parts list are not available as replacement parts.

Figure 40

# 12-2. EXPLODED VIEW MECHANISM (LOWER)


S903(L)
S908(R)
139
12
143
64
65
66
67
S905(L)
90
S910(R)
133(R)
88(R)
142
L901(R)
108(R)
109(L)
110
S902(L)
S907(R)
12
112
12
68
105
70(R)
71(R)
12
113
72
74
92
73
71
93
114
74
75
76
94
95
12
12
26
116
77
78
96
97
98
103
104
105
106
117
118
119
80
81
100
101
115
102
107
120
122
123
135
136
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82
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85
124
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126
127
13

NOTE: Parts excluded in the parts list are not available as replacement parts.

Figure 41

# 12-3. PARTS LIST (MECHANISM)

| Symbol No. | Part No. | Description |
|---|---|---|
| 1 | 25782511 | Lever, Record Lock |
| 2 | 25756280 | Gear, Rewind |
| 3 | 25756279 | Gear, Fast-forward |
| 4 | 25776432 | Spring |
| 5 | 25782509 | Lever, Fast-forward Gear |
| 6 | 25778013 | Spring, Rewind |
| 7 | 25782507 | Lever, Fast Drive |
| 8 | 25783266 | Slider, Rewind Drive |
| 10 | 25778008 | Spring, Play Lever |
| 11 | 25782505 | Lever, Play Drive |
| 12 | 22707301 | Screw, 2.6φ x 8mm, BID-TP |
| 13 | 25791505 | Main Chassis Ass'y |
| 14 | 25754402 | Reel Plate Ass'y, Supply |
| 15 | 25777099 | Spring, Supply Reel Plate |
| 16 | 25712409 | Reel Plate Ass'y, Take-up |
| 17 | 22707825 | Screw, 2.6φ x 6mm, TPAN |
| 18 | 22703281 | Washer, 2.6φ |
| 19 | 25776431 | Spring |
| 20 | 25772579 | Spring, Erase Head |
| 21 | 25777056 | Spring, Head |
| 22 | 25778007 | Spring, Head Slider |
| 24 | 25757129 | Stell Ball, 2φ |
| 26 | 25766050 | Washer |
| 27 | 22707602 | Screw, 2φ x 10mm, DTBID |
| 31 | 22218249 | Erase Head |
| 32 | 22217362 | Record/Playback Head |
| 33 | 25717516 | Pressure Roller Ass'y |
| 34 | 25778006 | Spring, Pressure Roller |
| 35 | 22707303 | Screw, 2.6φ x 10mm, BID-TP |
| 36 | 25779240 | Spring, Holder |
| 39 | 25873238 | Tape Counter |
| 40 | 25755529 | Belt, Tape Counter |
| 41 | 25776436 | Spring, Lock Holder |
| 42 | 25782512 | Lever, Lock Holder |
| 43 | 25783195 | Bush |
| 44 | 25782510 | Lever, ASO Pause |
| 45 | 25776418 | Spring |
| 46 | 25782506 | Lever, Pause |
| 48 | 25816687 | Button, Play |
| 49 | 25816689 | Button, Record |
| 50 | 25816690 | Button, Stop/Eject |
| 51 | 25816686 | Button, Rewind |
| 52 | 25816685 | Button, FF |
| 53 | 25816688 | Button, Pause |
| 54 | 25783279 | Bush |
| 55 | 25777097 | Spring, Pause Lock |
| 56 | 25775231 | Wire, Pause Lock |
| 58 | 25783271 | Slider, Record |
| 59 | 25783272 | Slider, Stop |
| 60 | 25783269 | Slider, Rewind |
| 61 | 25783268 | Slider, FF |
| 62 | 25783267 | Slider, Play |
| 63 | 25783270 | Slider, Pause |
| 64 | 25755527 | Belt, Drive |
| 65 | 25725340 | Bearing |
| 66 | 25766089 | Washer |
| 67 | 25717517 | Flywheel Ass'y |
| 68 | 25777108 | Spring, Thrust |
| 70 | 22701389 | Screw, 2.6φ x 3mm, BID |
| 71 | 25782508 | Lever, Search |
| 72 | 25778012 | Spring, ASO Lever |

| Symbol No. | Part No. | Description |
|---|---|---|
| 73 | 25782521 | Lever, ASO |
| 74 | 25776437 | Spring |
| 75 | 25782514 | Operation Lever, FF |
| 76 | 25782513 | Operation Lever, Play |
| 77 | 25782515 | Operation Lever, Pause |
| 78 | 25776420 | Spring |
| 80 | 25756282 | Cam Gear, Pause |
| 81 | 25756281 | Cam Gear, Play |
| 82 | 25776417 | Spring |
| 83 | 25741924 | Slider, Switch |
| 84 | 25741925 | Slider, Eject |
| 85 | 25741923 | Slider, Lock |
| 88 | 22707183 | Spring Pin, Solenoid |
| 90 | 22707169 | Screw, 2.6φ x 10mm, DTBID |
| 92 | 22707299 | Screw, 2φ x 8mm, BID-TP |
| 93 | 25776445 | Spring |
| 94 | 25734462 | Sub Plate Ass'y |
| 95 | 25778014 | Spring, Rewind Slider |
| 96 | 25756283 | Cam Gear, Fast |
| 97 | 25782522 | Lever, Play Stop |
| 98 | 25782516 | Lever, Record |
| 100 | 25778015 | Spring |
| 101 | 25775232 | Wire, Record |
| 102 | 25776419 | Spring |
| 103 | 25783226 | Bush |
| 104 | 25778011 | Spring, Detect Lever |
| 105 | 25766073 | Washer, ASO |
| 107 | 25782520 | Lever, ASO Detect |
| 108 | 25791506 | Motor Ass'y |
| 109 | 25781520 | Motor Ass'y |
| 110 | 25761238 | Cushion, Motor |
| 112 | 22161271 | Terminal Board |
| 114 | 22707429 | Screw, 2.6φ x 6.7mm |
| 115 | 25783199 | Washer |
| 116 | 25713559 | Pulley Ass'y, Center |
| 117 | 25755528 | Belt, Center |
| 118 | 25756284 | Gear, Take-up |
| 119 | 25756285 | Gear, Fast |
| 120 | 25782519 | Lever, Take-up |
| 122 | 25782517 | Lever, Record Bias |
| 123 | 25782518 | Lever, Record Select |
| 124 | 25748595 | Lever, Record |
| 125 | 25776433 | Spring, Record Lever |
| 126 | 25776435 | Spring, Record Select Lever |
| 127 | 25776434 | Spring, Record Bias Lever |
| 128 | 25779283 | Spring |
| 130 | 25783260 | Bush |
| 132 | 22707669 | Screw, 2φ x 12mm, DTBID |
| 133 | 25777133 | Spring, Solenoid |
| 135 | 22707366 | Screw, 2.6φ x 6mm, DTBID |
| 138 | 22707592 | Screw, 2φ x 10mm, BID-TP |
| 139 | 22707837 | Screw, 2φ x 5mm, PAN |
| 140 | 22707369 | Screw, 2.6φ x 12mm, DTBID |
| 142 | 22707426 | Screw, 2φ x 5mm, DTBID |
| 144 | 25766090 | Washer |
| 145 | 25764597 | Washer |
| 146 | 25754441 | Spacer |
| No. 1507 147 | 25766042 | WASHER, CENTER PULLEY ASSY |

# 13-1. EXPLODED VIEW (SPEAKERS)

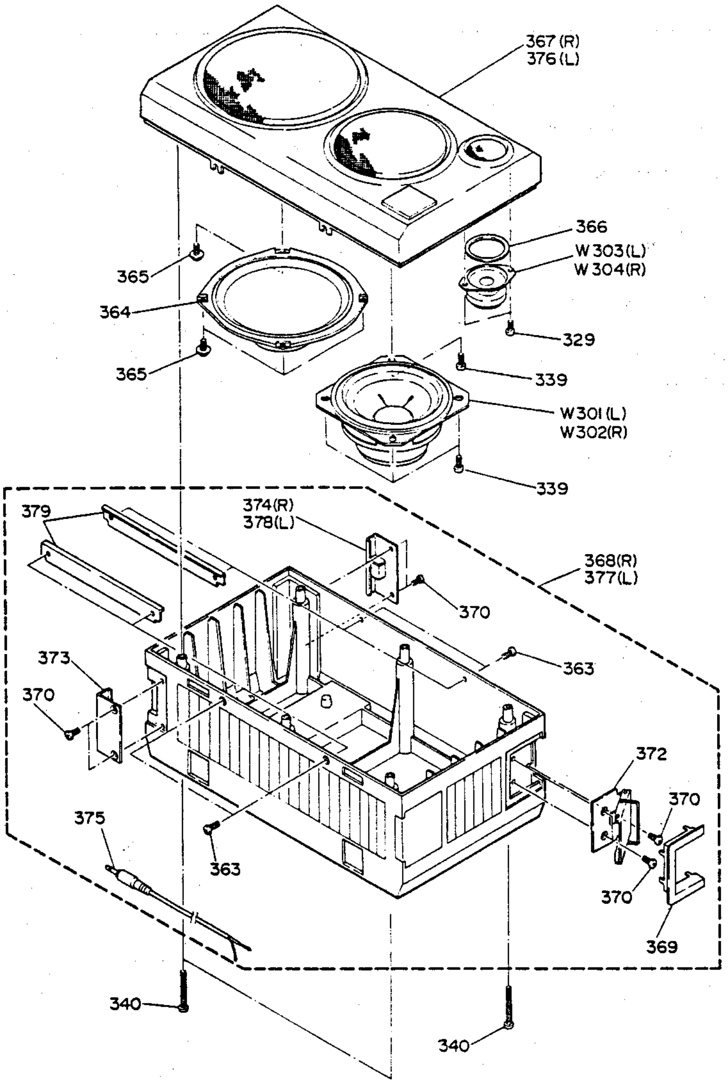
367 (R)
376 (L)
366
W303(L)
W304(R)
365
364
365
329
339
W301(L)
W302(R)
339
379
374(R)
378(L)
368(R)
377(L)
370
373
370
363
372
370
375
363
370
369
340
340

Figure 42

# 13-2. PARTS LIST (SPEAKERS)

| Symbol No. | Part No. | Description |
|---|---|---|
| 329 | 22701326 | Screw, 3φ x 8mm, BID-TP |
| 339 | 22701438 | Screw, 4φ x 10mm, BID-TP |
| 340 | 22701334 | Screw, 3φ x 35mm |
| 363 | 22707536 | Screw, 3φ x 10mm, BID |
| 364 | 20831376 | Passive Radiator |
| 365 | 22701436 | Screw, 3φ x 8mm, TPPAN |
| 366 | 25857104 | Spacer, Tweeter |
| 367 | 25881582 | Box Ass'y, Speaker, Right |
| 368 | 25881584 | Back Cabinet, Speaker, R |

| Symbol No. | Part No. | Description |
|---|---|---|
| 369 | 25832595 | Decoration, Joint Speaker |
| 370 | 22707778 | Screw, 3φ x 12mm, OVL |
| 372 | 25881357 | Joint Rock Ass'y |
| 373 | 25847255 | Joint Bracket, Bottom |
| 374 | 25847258 | Joint Bracket, R |
| 375 | 22166153 | Cord, Speaker |
| 376 | 25881583 | Box Ass'y, Speaker, Left |
| 377 | 25881585 | Back Cabinet, Speaker, L |
| 378 | 25847267 | Joint Bracket, L |

# 14. PARTS LIST

**CAUTION:**
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

| Symbol No. | Part No. | Description |
|---|---|---|
| **TRANSISTORS, IC's AND DIODES** | | |
| Q001 | B0325270 | IC, TA7335P |
| Q002 | A6319020 | Transistor, 2SC1923-O |
| Q101 | B0355431 | IC, TA7614AP-Y |
| Q102 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q103, 104 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q201 | B0325350 | IC, TA7343P |
| No 1308<br>Q301, 302 | B0320126<br>~~B0320120~~ | IC, TA7240AP<br>~~IC, TA7240P~~ |
| Q303 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q304 | A6534060 | Transistor, 2SA1015-GR |
| Q305, 306 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q401 | B0312570 | IC, TA7137P-STY |
| Q402 | B0350510 | IC, TA75558S |
| Q403, 404 | A6041860 | Transistor, 2SK117-GR |
| Q405, 406 | A6048310 | Transistor, 2SK30A-TM.R |
| Q407, 408 | A6048310 | Transistor, 2SK30A-TM.R |
| Q409, 410 | A6048310 | Transistor, 2SK30A-TM.R |
| Q411, 412 | A6048310 | Transistor, 2SK30A-TM.R |
| Q413 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q414 | B0350510 | IC, TA75558S |
| Q415 | B0275035 | IC, TD62507P |
| Q416, 417 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q418 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q419, 420 | A6534060 | Transistor, 2SA1015-GR |
| Q421 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q422 | B0350510 | IC, TA75558S |
| Q423, 424 | A6048310 | Transistor, 2SK30A-TM.R |
| Q425 | B0470162 | IC, TC4016BP |
| Q426 | B0350410 | IC, TA75557S |
| Q427 | B0350510 | IC, TA75558S |
| Q428 | B0350510 | IC, TA75558S |
| Q429, 430 | A6048310 | Transistor, 2SK30A-TM.R |
| Q432 | B0470162 | IC, TC4016BP |
| Q433, 434 | A6048310 | Transistor, 2SK30A-TM.R |
| Q435 | A6319300 | Transistor, 2SC1959NEW-Y |
| Q436 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q437 | B0325320 | IC, TA7341P |
| Q438 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q439 | B0470162 | IC, TC4016BP |
| Q440 | B0350510 | IC, TA75558S |
| Q441 | B0411385 | IC, TC9138AP |
| Q442 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q443, 444 | B0350510 | IC, TA75558S |
| Q445, 446 | A6534060 | Transistor, 2SA1015-GR |
| Q447, 448 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q701, 702 | A6333320 | Transistor, 2SC2655-Y |
| Q801, 802 | B0350510 | IC, TA75558S |
| Q803, 804 | B0354510 | IC, TA7605AP |
| Q805 | B0350510 | IC, TA75558S |
| Q806 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q807, 808 | A6048310 | Transistor, 2SK30A-TM.R |
| Q809, 810 | A6048310 | Transistor, 2SK30A-TM.R |
| Q811, 812 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q813, 814 | A6534060 | Transistor, 2SA1015-GR |
| Q815 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q901 | A6848520 | Transistor, 2SD880-Y |
| Q903, 904 | A6321240 | Transistor, 2SC2120-Y |
| Q905 | A6319300 | Transistor, 2SC1959NEW-Y |
| Q906 | A6848520 | Transistor, 2SD880-Y |
| Q907, 908 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q909, 910 | A6534060 | Transistor, 2SA1015-GR |
| Q911 | A6333320 | Transistor, 2SC2655-Y |
| Q913 | A6534060 | Transistor, 2SA1015-GR |
| D001, 002 | A7246703 | Diode, 1S1555V |
| D003 | A7246703 | Diode, 1S1555V |
| D004 | A7289000 | Diode, 1S2236 |
| D101 | A7246703 | Diode, 1S1555V |
| D103 | A8606630 | Diode, TLG205 |
| D201 | A8603110 | Diode, TLR205 |
| D301, 302 | A7246703 | Diode, 1S1555V |
| D303, 304 | A7246703 | Diode, 1S1555V |
| D305 | A7246703 | Diode, 1S1555V |

| Symbol No. | Part No. | Description |
|---|---|---|
| D401, 402 | A7246703 | Diode, 1S1555V |
| D403, 404 | A7246703 | Diode, 1S1555V |
| D405, 406 | A7246703 | Diode, 1S1555V |
| D407, 408 | A7246703 | Diode, 1S1555V |
| D409 | A7110041 | Diode, 05Z5.1-Y |
| D410, 411 | A7246703 | Diode, 1S1555V |
| D412, 413 | A8603110 | Diode, TLR205 |
| D414 | A8603110 | Diode, TLR205 |
| D416 | A7246703 | Diode, 1S1555V |
| D417, 418 | A7246703 | Diode, 1S1555V |
| D419, 420 | A7246703 | Diode, 1S1555V |
| D421, 422 | 22115808 | Diode, 1K60A |
| D423 | A7246703 | Diode, 1S1555V |
| D424 | A8620350 | Diode, TLR308 |
| D425, 426 | A7246703 | Diode, 1S1555V |
| D427 | A7109363 | Diode, 05Z3.6-Y |
| D428 | A7246703 | Diode, 1S1555V |
| D429, 430 | A8606630 | Diode, TLG205 |
| D432 | A7246703 | Diode, 1S1555V |
| D433, 434 | 22115808 | Diode, 1K60A |
| D435, 436 | A7246703 | Diode, 1S1555V |
| D437, 438 | A7246703 | Diode, 1S1555V |
| D439 | A7246703 | Diode, 1S1555V |
| D701, 702 | A7246703 | Diode, 1S1555V |
| NO 1368 D801 | A7110160 ~~A7286500~~ | Diode, 05Z7.5-Y ~~02Z7.5A~~ |
| D802, 803 | A7246703 | Diode, 1S1555V |
| D804, 806 | A8603110 | Diode, TLR205 |
| D805 | A8606630 | Diode, TLG205 |
| D807 | A7246703 | Diode, 1S1555V |
| ⚠ D901 | A7683100 | Diode, 5B2C11 |
| D902 | A7246703 | Diode, 1S1555V |
| D905 | A7110115 | Diode, 05Z6.8-Y |
| D906 | A7110208 | Diode, 05Z8.2-Y |
| D907 | A8603110 | Diode, TLR205 |
| D908, 909 | A7246703 | Diode, 1S1555V |
| D910, 911 | A7246703 | Diode, 1S1555V |
| D912 | A7110160 | Diode, 05Z7.5-Y |
| D913 | A7246703 | Diode, 1S1555V |

## COILS AND TRANSFORMERS

| Symbol No. | Part No. | Description |
|---|---|---|
| L001 | 22294003 | Coil, RF, FM |
| L002 | 22294016 | Coil, Oscillator, FM |
| L003 | 22282168 | Coil, Antenna, SW2 |
| L004 | 22282233 | Coil, Antenna, SW1 |
| L005 | 22242913 | Coil, Antenna, MW |
| L006 | 22291103 | Coil, 1.5 µH |
| L101 | 22285320 | Coil, Oscillator, SW2 |
| L102 | 22285319 | Coil, Oscillator, SW1 |
| L103 | 22245385 | Coil, Oscillator, MW |
| L104 | 22265764 | IF Transformer, FM |
| L105 | 22264768 | IF Transformer, AM |
| L106 | 22264746 | IF Transformer, AM |
| L107 | 22267350 | IF Transformer, FM |
| L401 | 22241062 | Coil, Choke, 330 µH |
| L701, 703 | 22235019 | Coil, Oscillator, Tape |
| L702, 704 | 22241062 | Coil, Choke, 330 µH |
| L901 | 22147241 | Solenoid |
| L902 | 22241063 | Coil, Choke, 39 µH |
| ⚠ T901 | 22224187 | Transformer, Power |

## ELECTRICAL PARTS

| Symbol No. | Part No. | Description |
|---|---|---|
| S10, 11 | 22196033 | Key Switch, Lamp, Preset |
| S12, 13 | 22196033 | Key Switch, Editor A, B |
| S100 ∿ 109 | 22195409 | Slide Switch, Record/P.B. |
| S200 ∿ 209 | 22195409 | Slide Switch, Record/P.B. |
| S111 ∿ 114, | 22196024 | Push Switch, Tape |
| S121 ∿ 124, | 22196024 | Push Switch, Phono |
| S131 ∿ 134, | 22196024 | Push Switch, Line |
| S141 ∿ 144, | 22196024 | Push Switch, Tuner |
| S211 | 22196024 | Push Switch, Mixing |
| S301 ∿ 304 | 22195420 | Lever Switch, Function |
| S311 ∿ 318 | 22196026 | Rotary Switch, Band Select |
| S401 ∿ 402 | 22195449 | Lever Switch, Beat |
| S501 ∿ 504 | 22195420 | Lever Switch, Tape A |
| S601 ∿ 604 | 22195420 | Lever Switch, Tape B |
| S701, 702, | 22196027 | Push Switch, OFF |
| S711, 712, | 22196027 | Push Switch, Adres |
| S721, 722 | 22196027 | Push Switch, NR |
| S801, 802, | 22196022 | Push Switch, Repeat |
| ⚠ S9, | 22196022 | Push Switch, Power |
| S41, | 22196022 | Push Switch, Stereo/Mono |
| S51 | 22196022 | Push Switch, ST/Stereo Wide |
| S901, 905,<br>S906, 910 | 22195983 | Leaf Switch |
| S902, 907 | 22195885 | Leaf Switch |
| S903, 908 | 22196068 | Leaf Switch |
| S904, 909 | 22196087 | Leaf Switch |
| ⚠ S911 | 22195989 | Rotary Switch, Volt Select |
| J301, 302 | 22163785 | Jack, Speaker, 3.5ϕ |
| J303 | 22163908 | Jack, Headphone, 6ϕ |

| Symbol No. | Part No. | Description |
|---|---|---|
| J401, 402,<br>J407, 408 | 22163887 | Jack, Line Out, Aux/Phono |
| J403, 404 | 22163865 | Jack, Mic, 3.5ϕ |
| J405, 406 | 22163907 | Jack, Mic Mixing, Sub Phone |
| ⚠ J901 | 22167876 | Socket, AC |
| Z001 No. 1563 | 22153121 | Filter, RF, FM |
| Z101, 102 | 22153122 ~~22153079~~ | Filter, Ceramic, 10.7 MHz |
| Z103 | 22153070 | Filter, Ceramic, 455 kHz |
| Z201, 202 | 22153078 | Filter, MPX |
| Z801, 802 | 22153186 | Filter |
| G401, 402 | 22154212 | Microphone Unit |
| W301, 302 | 2511084 [redacted] | Speaker, [redacted] KIT |
| W303, 304 | 22152412 | Speaker, 4 cm |
| A001, 002 | 22124700 | Rod Antenna |
| ⚠ F901 | 22144457 | Fuse, 125V, 6.3A |
| N401, 402 | 22104578 | Meter |
| N901 | 22113568 | Lamp, 12V, 110mA |
| EP01 | 22113577 | Meter Lamp, 6.3V, 110mA |
| EP02 | 22165047 | Holder, Fuse |

## CAPACITORS

D = ±0.5%, G = ±2%, J = ±5%, K = ±10%, M = ±20%,
Z = −20 + 80%
ABBREVIATIONS: CD = Ceramic Disk, MY = Mylar
PP = Polypropylene, EL = Electrolytic,
BL = Barrier Layer

| Symbol No. | Part No. | Description |
|---|---|---|
| C001, 002,<br>C003, 004,<br>C005, 006,<br>C007, 008 | 22308426 | Variable Capacitor |
| C009, 010,<br>C011, 012 | 22309183 | Trimmer |
| C013 | 22361220 | CD, 22pF, 50V, J |
| C014 | 22360134 | CD, 22pF, 50V, J |
| C015 | 22360132 | CD, 15pF, 50V, J |
| C016 | 22362470 | CD, 47pF, 50V, K |
| C017 | 22361609 | CD, 6pF, 50V, D |
| C018 | 22262150 | CD, 15pF, 50V, K |
| C019 | 22361509 | CD, 5pF, 50V, D |
| C020 | 22349391 | CD, 390pF, 50V, K |
| C021 | 22342223 | CD, 0.022mfd, 50V, Z |
| C022 | 22362560 | CD, 56pF, 50V, K |
| C023 | 22360134 | CD, 22pF, 50V, J |
| C024 | 22342223 | CD, 0.022mfd, 50V, Z |
| C025 | 22361509 | CD, 5pF, 50V, D |
| C026 | 22349391 | CD, 390pF, 50V, K |
| C027 | 22342223 | CD, 0.022mfd, 50V, Z |
| C028 | 22361~~709~~ 408 | CD, ~~7~~ 4pF, 50V, D No. 1199 |
| C029 | 22342223 | CD, 0.022mfd, 50V, Z |
| C101 | 22349472 | CD, 4700pF, 50V, K |
| C102 | 22342223 | CD, 0.022mfd, 50V, Z |
| C103 | 22321050 | PP, 360pF, 50V, J |
| C104 | 22321058 | PP, 1200pF, 50V, J |
| C105 | 22342223 | CD, 0.022mfd, 50V, Z |
| C106 | 22342223 | CD, 0.022mfd, 50V, Z |
| C107 | 22342473 | CD, 0.047mfd, 50V, Z |
| C108 | 22360329 | BL, 0.022mfd, 25V, M |
| C109 | 22342223 | CD, 0.022mfd, 50V, Z |
| C110 | 22362101 | CD, 100pF, 50V, K |
| C111 | 22488339 | EL, 3.3mfd, 50V |
| C112 No.1217 | 22~~488108~~ 360328 | ~~EL, 0.1mfd, 50V~~ BL, 0.015MFD, 25V |
| C113 | 22488478 | EL, 0.47mfd, 50V |
| C114 | 22483101 | EL, 100mfd, 10V |
| C115 | 22349391 | CD, 390pF, 50V, K |
| C116 | 22483101 | EL, 100mfd, 10V |
| C117 | 22483470 | EL, 47mfd, 10V |
| C118 | 22488339 | EL, 3.3mfd, 50V |
| C119 | 22342223 | CD, 0.022mfd, 50V, Z |
| C120 | 22342223 | CD, 0.022mfd, 50V, Z |
| C121 | 22485100 | EL, 10mfd, 16V |
| C122 | 22342223 | CD, 0.022mfd, 50V, Z |
| C123 | 22360327 | BL, 0.01mfd, 25V, M |
| C124 | 22342223 | CD, 0.022mfd, 50V, Z |
| C125 | 22488339 | EL, 3.3mfd, 50V |
| C127 | 22342223 | CD, 0.022mfd, 50V, Z |
| C201 | 22488478 | EL, 0.47mfd, 50V |
| C202 | 22488109 | EL, 1mfd, 50V |
| C203 | 22483101 | EL, 100mfd, 10V |
| C204 | 22321057 | PP, 1000pF, 50V, J |
| C205, 206 | 22488339 | EL, 3.3mfd, 50V |
| C207 | 22488109 | EL, 1mfd, 50V |
| C301, 302 | 22488109 | EL, 1mfd, 50V |
| C303, 304 | 22485330 | EL, 33mfd, 16V |
| C305, 306 | 22360326 | BL, 6800pF, 50V, M |
| C307, 308 | 22488109 | EL, 1mfd, 50V |
| C309, 310 | 22483101 | EL, 100mfd, 10V |
| C311, 312 | 22483101 | EL, 100mfd, 10V |
| C313, 314 | 22373154 | MY, 0.15mfd, 50V, M |
| C315, 316 | 22373823 | MY, 0.082mfd, 50V, M |
| C317, 318 | 22373154 | MY, 0.15mfd, 50V, M |
| C319, 320 | 22373823 | MY, 0.082mfd, 50V, M |
| C321, 322 | 22488339 | EL, 3.3mfd, 50V |

| Symbol No. | Part No. | Description |
|---|---|---|
| C323, 324 | 22360331 | BL, 0.047mfd, 25V, M |
| C325, 326 | 22349472 | CD, 4700pF, 50V, K |
| C327 | 22488339 | EL, 3.3mfd, 50V |
| C328 | 22483101 | EL, 100mfd, 10V |
| C329, 330 | 22349471 | CD, 470pF, 50V, K |
| C339, 340 | 22485330 | EL, 33mfd, 16V |
| C341 | 22483470 | EL, 47mfd, 10V |
| C343, 344 | 22475479 | EL, 4.7mfd, 16V, BP |
| | | |
| C401 | 22485100 | EL, 10mfd, 16V |
| C402 | 22483101 | EL, 100mfd, 10V |
| C403 | 22488109 | EL, 1mfd, 50V |
| C404 | 22485100 | EL, 10mfd, 16V |
| C405 | 22488478 | EL, 0.47mfd, 50V |
| C406 | 22361100 | CD, 10pF, 50V, D |
| C407 | 22349103 | CD, 0.01mfd, 50V, K |
| C408 | 22485100 | EL, 10mfd, 16V |
| C409 | 22483470 | EL, 47mfd, 10V |
| C410 | 22483221 | EL, 220mfd, 10V |
| C411, 412 | 22488228 | EL, 0.22mfd, 50V |
| C413, 414 | 22360333 | BL, 0.1mfd, 25V, M |
| C415, 416 | 22349471 | CD, 470pF, 50V, K |
| C417, 418 | 22485330 | EL, 33mfd, 16V |
| C419, 420 | 22483101 | EL, 100mfd, 10V |
| C421, 422 | 22362101 | CD, 100pF, 50V, K |
| C423, 424 | 22372562 | MY, 5600pF, 50V, K |
| C425, 426 | 22372563 | MY, 0.056mfd, 50V, K |
| C427, 428 | 22488228 | EL, 0.22mfd, 50V |
| C429 | 22486220 | EL, 22mfd, 25V |
| C430 | 22488478 | EL, 0.47mfd, 50V |
| C431 | 22488478 | EL, 0.47mfd, 50V |
| C432 | 22483470 | EL, 47mfd, 10V |
| C433, 434 | 22488339 | EL, 3.3mfd, 50V |
| C435 | 22488109 | EL, 1mfd, 50V |
| C436 | 22349332 | CD, 3300pF, 50V, K |
| C437, 438 | 22349102 | CD, 1000pF, 50V, K |
| C439, 440 | 22360328 | BL, 0.015mfd, 25V, M |
| C441, 442 | 22360331 | BL, 0.047mfd, 25V, M |
| C443, 444 | 22440271 | EL, 0.47mfd, 50V |
| C445, 446 | 22349332 | CD, 3300pF, 50V, K |
| C447, 448 | 22360327 | BL, 0.01mfd, 25V, M |
| C449, 450 | 22488109 | EL, 1mfd, 50V |
| C451, 452 | 22483101 | EL, 100mfd, 10V |
| C453, 454 | 22349221 | CD, 220pF, 50V, K |
| C455 | 22362220 | CD, 22pF, 50V, K |
| C456 | 22349222 | CD, 2200pF, 50V, K |
| C457, 458 | 22440271 | EL, 0.47mfd, 50V |
| C459, 460 | 22371102 | MY, 1000pF, 50V, J |
| C461 | 22360484 | CD, 0.047mfd, 50V, Z |
| C462 | 22349472 | CD, 4700pF, 50V, K |
| C463, 464 | 22483101 | EL, 100mfd, 10V |
| C465, 466 | 22488109 | EL, 1mfd, 50V |
| C467, 468 | 22360326 | BL, 6800pF, 50V, M |

| Symbol No. | Part No. | Description |
|---|---|---|
| C469, 470 | 22349681 | CD, 680pF, 50V, K |
| C471, 472 | 22485100 | EL, 10mfd, 16V |
| C473, 474 | 22488109 | EL, 1mfd, 50V |
| C475, 476 | 22483101 | EL, 100mfd, 10V |
| C477, 478 | 22371102 | MY, 1000pF, 50V, J |
| C479, 480 | 22342223 | CD, 0.022mfd, 50V, Z |
| C481, 482 | 22488109 | EL, 1mfd, 50V |
| C483, 484 | 22360326 | BL, 6800pF, 50V, M |
| C485, 486 | 22349681 | CD, 680pF, 50V, K |
| C487, 488 | 22349471 | CD, 470pF, 50V, K |
| C489, 490 | 22483470 | EL, 47mfd, 10V |
| C491, 492 | 22349221 | CD, 220pF, 50V, K |
| C493, 494 | 22372103 | MY, 0.01mfd, 50V, K |
| C495, 496 | 22483101 | EL, 100mfd, 10V |
| C497 | 22349222 | CD, 2200pF, 50V, K |
| C498, 499 | 22485100 | EL, 10mfd, 16V |
| C500 | 22349472 | CD, 4700pF, 50V, K |
| C501 | 22486220 | EL, 22mfd, 25V |
| C502 | 22349332 | CD, 3300pF, 50V, K |
| C503 | 22360333 | BL, 0.1mfd, 25V, M |
| C504 | 22483101 | EL, 100mfd, 10V |
| C505, 506 | 22488479 | EL, 4.7mfd, 50V |
| C507, 508 | 22488229 | EL, 2.2mfd, 50V |
| C509, 510 | 22485100 | EL, 10mfd, 16V |
| C511, 512 | 22360330 | BL, 0.033mfd, 25V, M |
| C513, 514 | 22360330 | BL, 0.033mfd, 25V, M |
| C515, 516 | 22485100 | EL, 10mfd, 16V |
| C517 | 22342223 | CD, 0.022mfd, 50V, Z |
| C518 | 22342223 | CD, 0.022mfd, 50V, Z |
| C519 | 22488478 | EL, 0.47mfd, 50V |
| C520 | 22483101 | EL, 100mfd, 10V |
| C521 | 22488478 | EL, 0.47mfd, 50V |
| C522 | 22482102 | EL, 1000mfd, 6.3V |
| C524 | 22362101 | CD, 100pF, 50V, K |
| C525 | 22486101 | EL, 100mfd, 25V |
| C526 | 22485100 | EL, 10mfd, 16V |
| C527 | 22483101 | EL, 100mfd, 10V |
| C528 | 22342223 | CD, 0.022mfd, 50V, Z |
| C529, 530 | 22349331 | CD, 330pF, 50V, K |
| C531, 532 | 22488339 | EL, 3.3mfd, 50V |
| C533, 534 | 22488339 | EL, 3.3mfd, 50V |
| C535 | 22488229 | EL, 2.2mfd, 50V |
| | | |
| C701, 709 | 22321210 | PP, 0.1mfd, 50V, K |
| C702, 711 | 22372683 | MY, 0.068mfd, 50V, K |
| C703, 712 | 22372223 | MY, 0.022mfd, 50V, K |
| C704, 713 | 22483101 | EL, 100mfd, 10V |
| C705, 714 | 22372473 | MY, 0.047mfd, 50V, K |
| C706, 715 | 22372103 | MY, 0.01mfd, 50V, K |
| C707 | 22372473 | MY, 0.047mfd, 50V, K |
| C708, 710 | 22321057 | PP, 0.01mfd, 100V, J |
| | | |
| C801, 802 | 22485100 | EL, 10mfd, 16V |

| Symbol No. | Part No. | Description |
|---|---|---|
| C803, 804 | 22485100 | EL, 10mfd, 16V |
| C805, 806 | 22362101 | CD, 100pF, 50V, K |
| C807, 808 | 22321309 | PP, 235pF, 100V, G |
| C809, 810 | 22321308 | PP, 9100pF, 100V, G |
| C811, 812 | 22321307 | PP, 4700pF, 100V, G |
| C813, 814 | 22360333 | BL, 0.1mfd, 25V, M |
| C815, 816 | 22488478 | EL, 0.47mfd, 50V |
| C817, 818 | 22362180 | CD, 18pF, 50V, K |
| C819, 820 | 22485100 | EL, 10mfd, 16V |
| C821, 822 | 22321306 | PP, 1500pF, 100V, G |
| C823, 824 | 22349222 | CD, 2200pF, 50V, K |
| C825, 826 | 22485100 | EL, 10mfd, 16V |
| C827, 828 | 22349221 | CD, 220pF, 50V, K |
| C829, 830 | 22362150 | CD, 15pF, 50V, K |
| C831, 832 | 22485100 | EL, 10mfd, 16V |
| C833, 834 | 22349152 | CD, 1500pF, 50V, K |
| C835, 836 | 22482102 | EL, 1000mfd, 6.3V |
| C837, 838 | 22361609 | CD, 6pF, 50V, D |
| C839 | 22360484 | CD, 0.047mfd, 50V, Z |
| C901 | 22372224 | MY, 0.22mfd, 50V, K |
| C902 | 22372154 | MY, 0.15mfd, 50V, K |
| C903 | 22440424 | EL, 10000mfd, 25V |
| C904 | 22485101 | EL, 100mfd, 16V |
| C905 | 22485102 | EL, 1000mfd, 16V |
| C906 | 22483101 | EL, 100mfd, 10V |
| C907 | 22486102 | EL, 1000mfd, 25V |
| C908 | 22342223 | CD, 0.022mfd, 50V, Z |
| C909 | 22487330 | EL, 33mfd, 35V |
| C910 | 22372823 | MY, 0.082mfd, 50V, K |

### RESISTORS

1. Resistors are carbon film 1/6W, ±5% unless otherwise noted. G = ±2%
2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required. Please use the substitutional fixed carbon film resistor of 1/4W, ±5% according to the following list. K = 1000, M =1000000

| | | |
|---|---|---|
| R001 | 22584332 | 3.3K ohm |
| R002 | 22584332 | 3.3K ohm |
| R003 | 22625439 | 50K ohm, Variable |
| R004 | 22545102 | 1K ohm, 1/4W (PRC) |
| R005 | 22584103 | 10K ohm |
| R006 | 22545104 | 100K ohm, 1/4W |
| R007 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R008 | 22545223 | 22K ohm, 1/4W (PRC) |
| R009 | 22545223 | 22K ohm, 1/4W (PRC) |
| R010 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R011 | 22545682 | 6.8K ohm, 1/4W (PRC) |
| R012 | 22545682 | 6.8K ohm, 1/4W (PRC) |

| Symbol No. | Part No. | Description |
|---|---|---|
| R101 | 22545331 | 330 ohm, 1/4W (PRC) |
| R102 | 22545101 | 100 ohm, 1/4W (PRC) |
| R103 | 22545331 | 330 ohm, 1/4W (PRC) |
| R104 | 22584470 | 47 ohm |
| R105 | 22545681 | 680 ohm, 1/4W (PRC) |
| R106 | 22545331 | 330 ohm, 1/4W (PRC) |
| R107 | 22555829 | 8.2 ohm, 1/4W, Rank–Y |
| R107 | 22555479 | 4.7 ohm, 1/4W, Rank–W |
| R108 | 22545182 | 1.8K ohm, 1/4W (PRC) |
| R109 | 22545182 | 1.8K ohm, 1/4W (PRC) |
| R110 | 22584104 | 100K ohm |
| R111 | 22545272 | 2.7K ohm, 1/4W (PRC) |
| R112 | 22545104 | 100K ohm, 1/4W (PRC) |
| R113 | 22545822 | 8.2K ohm, 1/4W (PRC) |
| R114 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R115 | 22545154 | 150K ohm, 1/4W (PRC) |
| R201 | 22545102 | 1K ohm, 1/4W (PRC) |
| R202 | 22545822 | 8.2K ohm, 1/4W (PRC) |
| R203 | 22658599 | 10K ohm, Semi-fixed Variable |
| R204 | 22545154 | 150K ohm, 1/4W (PRC) |
| R205, 206 | 22584332 | 3.3K ohm |
| R207 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R208 | 22545221 | 220 ohm, 1/4W |
| R301 | 22584681 | 680 ohm |
| R302 | 22584822 | 8.2K ohm |
| R303, 304 | 22584331 | 330 ohm |
| R305, 306 | 22584100 | 10 ohm |
| R307, 308 | 22584222 | 2.2K ohm |
| R309, 310 | 22584822 | 8.2K ohm |
| R311, 312 | 22584333 | 33K ohm |
| R313, 314 | 22543680 | 68 ohm, 1/8W |
| R315, 316 | 22584102 | 1K ohm |
| R317, 318 | 22584331 | 330 ohm |
| R319, 320 | 22657245 | 50K ohm, Variable |
| R321, 322 | 22584105 | 1M ohm |
| R323 | 22547109 | 1 ohm, 1/2W |
| R324 | 22584472 | 4.7K ohm |
| R325 | 22584102 | 1K ohm |
| R401 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R402 | 22545103 | 10K ohm, 1/4W (PRC) |
| R403 | 22545224 | 220K ohm, 1/4W (PRC) |
| R404 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R405 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R406 | 22545104 | 100k ohm, 1/4W (PRC) |
| R407 | 22545473 | 47K ohm, 1/4W (PRC) |
| R408 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R409 | 22657247 | 10K ohm, Variable |
| R410 | 22545102 | 1K ohm, 1/4W (PRC) |
| R411, 412 | 22545271 | 270 ohm, 1/4W (PRC) |
| R413, 414 | 22584682 | 6.8K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R415, 416 | 22545103 | 10K ohm, 1/4W (PRC) |
| R417, 418 | 22545153 | 15K ohm, 1/4W (PRC) |
| R419, 420 | 22584222 | 2.2K ohm |
| R421, 422 | 22545474 | 470K ohm, 1/4W (PRC) |
| R423 | 22545104 | 100K ohm, 1/4W (PRC) |
| R424 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R427, 428 | 22584221 | 220 ohm |
| R429, 430 | 22550325 | 10M ohm, 1/4W |
| R431, 432 | 22584564 | 560K ohm |
| R433, 434 | 22584123 | 12K ohm |
| R435, 436 | 22584103 | 10K ohm |
| R437, 438 | 22550325 | 10M ohm, 1/4W |
| R439, 440 | 22550325 | 10M ohm, 1/4W |
| R441, 442 | 22545104 | 100K ohm, 1/4W (PRC) |
| R443, 444 | 22550325 | 10M ohm, 1/4W |
| R445, 446 | 22555122 | 1.2K ohm, 1/4W |
| R447, 448 | 22584153 | 15K ohm |
| R449, 450 | 22584225 | 2.2M ohm |
| R451, 452 | 22545153 | 15K ohm, 1/4W (PRC) |
| R453 | 22545104 | 100K ohm, 1/4W (PRC) |
| R454 | 22545154 | 150K ohm, 1/4W |
| R455 | 22545223 | 22K ohm, 1/4W (PRC) |
| R456 | 22545154 | 150K ohm, 1/4W |
| R457 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R458 | 22584225 | 2.2M ohm |
| R459, 460 | 22584682 | 6.8K ohm |
| R461, 462 | 22584123 | 12K ohm |
| R463, 464 | 22584273 | 27K ohm |
| R465, 466 | 22584223 | 22K ohm |
| R467, 468 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R469 | 22545104 | 100K ohm, 1/4W (PRC) |
| R470 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R471, 472 | 22584153 | 15K ohm |
| R473, 474 | 22584152 | 1.5K ohm |
| R475, 476 | 22584152 | 1.5K ohm |
| R477, 478 | 22657249 ✓ | 50K ohm, Variable, Treble |
| R479, 480 | 22657246 ✓ | 50K ohm, Variable, Bass |
| R481 | 22545102 | 1K ohm, 1/4W (PRC) |
| R483, 484 | 22545103 | 10K ohm, 1/4W |
| R485, 486 | 22545682 | 6.8K ohm, 1/4W |
| R489, 490 | 22657250 ✓ | 500K ohm, Variable, USL |
| R491, 492 | 22584105 | 1M ohm |
| R493, 494 | 22584223 | 22K ohm |
| R495, 496 | 22545153 | 15K ohm, 1/4W (PRC) |
| R497, 498 | 22545153 | 15K ohm, 1/4W (PRC) |
| R499, 500 | 22584103 | 10K ohm |
| R501, 502 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R503 | 22545104 | 100K ohm, 1/4W (PRC) |
| R504 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R505, 506 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R507, 508 | 22584153 | 15K ohm |
| R509, 510 | 22584104 | 100K ohm |
| R511, 512 | 22584474 | 470K ohm |
| R513, 514 | 22545221 | 220 ohm, 1/4W (PRC) |

| Symbol No. | Part No. | Description |
|---|---|---|
| R515, 516 | 22584822 | 8.2K ohm |
| R517, 518 | 22555123 | 12K ohm, 1/4W |
| R519, 520 | 22555273 | 27K ohm, 1/4W |
| R521, 522 | 22545474 | 470K ohm, 1/4W (PRC) |
| R523, 524 | 22584225 | 2.2M ohm |
| R525, 526 | 22584223 | 22K ohm |
| R527, 528 | 22584332 | 3.3K ohm |
| R529, 530 | 22584223 | 22K ohm |
| R531, 532 | 22584103 | 10K ohm |
| R533, 534 | 22545104 | 100K ohm, 1/4W (PRC) |
| R535, 536 | 22584123 | 12K ohm |
| R537, 538 | 22584104 | 100K ohm |
| R539, 540 | 22555121 | 120 ohm, 1/4W |
| R541, 542 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R543, 544 | 22584153 | 15K ohm |
| R545, 546 | 22584104 | 100K ohm |
| R547, 548 | 22584474 | 470K ohm |
| R549, 550 | 22545221 | 220 ohm, 1/4W (PRC) |
| R551, 552 | 22584822 | 8.2K ohm |
| R553, 554 | 22584123 | 12K ohm |
| R555, 556 | 22584273 | 27K ohm |
| R557, 558 | 22545474 | 470K ohm, 1/4W (PRC) |
| R559, 560 | 22584225 | 2.2M ohm |
| R561, 562 | 22584332 | 3.3K ohm |
| R563, 564 | 22550233 | 24K ohm, 1/4W (PRC) |
| R565, 566 | 22545104 | 100K ohm, 1/4W (PRC) |
| R567 | 22545104 | 100K ohm, 1/4W (PRC) |
| R568, 569 | 22545183 | 18K ohm, 1/4W (PRC) |
| R570, 571 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R572 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R573, 574 | 22545334 | 330K ohm, 1/4W (PRC) |
| R575, 576 | 22658500 | 300 ohm, Semi-fixed Variable |
| R577, 578 | 22584334 | 330K ohm |
| R579, 580 | 22584682 | 6.8K ohm |
| R581, 582 | 22584562 | 5.6K ohm |
| R583, 584 | 22545103 | 10K ohm, 1/4W (PRC) |
| R585 | 22545104 | 100K ohm, 1/4W (PRC) |
| R586 | 22545273 | 27K ohm, 1/4W (PRC) |
| R587 | 22545104 | 100K ohm, 1/4W (PRC) |
| R588 | 22545104 | 100K ohm, 1/4W (PRC) |
| R589 | 22584183 | 18K ohm |
| R590 | 22545102 | 1K ohm, 1/4W (PRC) |
| R591 | 22545104 | 100K ohm, 1/4W (PRC) |
| R592 | 22545224 | 220K ohm, 1/4W (PRC) |
| R593 | 22584472 | 4.7K ohm |
| R594 | 22545104 | 250K ohm, 1/4W |
| R594 | 22545154 | (100K + 150K) (PRC) |
| R595 | 22545103 | 10K ohm, 1/4W (PRC) |
| R596 | 22545103 | 10K ohm, 1/4W |
| R597 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R598 | 22584100 | 10 ohm |
| R599 | 22545223 | 22K ohm |
| R600 | 22545683 | 68K ohm, 1/4W (PRC) |

| Symbol No. | Part No. | Description |
|---|---|---|
| R601 | 22545473 | 47K ohm, 1/4W (PRC) |
| R602 | 22545334 | 330K ohm, 1/4W (PRC) |
| R603 | 22545334 | 330K ohm, 1/4W (PRC) |
| R604 | 22540639 | 3.3 ohm, 1/4W |
| R605, 606 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R607, 608 | 22584103 | 10K ohm |
| R609, 610 | 22657247 | 10K ohm, Variable |
| R611, 612 | 22545473 | 47K ohm, 1/4W (PRC) |
| R613, 614 | 22584473 | 47K ohm |
| R615, 616 | 22555820 | 82 ohm, 1/4W |
| R617, 618 | 22545271 | 270 ohm, 1/4W (PRC) |
| R619, 620 | 22545821 | 820 ohm, 1/4W (PRC) |
| R621, 622 | 22545821 | 820 ohm, 1/4W (PRC) |
| R623, 624 | 22545821 | 820 ohm, 1/4W (PRC) |
| R625 | 22545821 | 820 ohm, 1/4W (PRC) |
| R626 | 22545103 | 10K ohm, 1/4W (PRC) |
| R627 | 22584151 | 150 ohm |
| R628 | 22545334 | 330K ohm, 1/4W (PRC) |
| R629 | 22545683 | 68K ohm, 1/4W (PRC) |
| R630 | 22545223 | 22K ohm, 1/4W (PRC) |
| R631 | 22545104 | 100K ohm, 1/4W (PRC) |
| R632 | 22584105 | 1M ohm |
| ~~R633, 634~~ | ~~22657248~~ ✓ | ~~10K ohm, Variable~~ |
| R635, 636 | 22658379 | 2K ohm, Semi-fixed Variable |
| R637 | 22545104 | 100K ohm, 1/4W (PRC) |
| R638 | 22584472 | 4.7K ohm |
| R639, 640 | 22550325 | 10M ohm, 1/4W, K |
| R641 | 22545393 | 39K ohm, 1/4W (PRC) |
| R642 | 22545103 | 10K ohm, 1/4W (PRC) |
| R643 | 22545473 | 47K ohm, 1/4W (PRC) |
| R644 | 22545104 | 100K ohm, 1/4W (PRC) |
| R645, 646 | 22545103 | 10K ohm, 1/4W (PRC) |
| R647 | 22545103 | 10K ohm, 1/4W (PRC) |
| R648 | 22540640 | 22 ohm, 1/4W |
| R649 | 22584339 | 3.3 ohm |
| R650 | 22545103 | 10K ohm, 1/4W (PRC) |
| R651 | 22545334 | 330K ohm, 1/4W (PRC) |
| R652 | 22545104 | 100K ohm, 1/4W (PRC) |
| R653 | 22545334 | 330K ohm, 1/4W (PRC) |
| R654, 655 | 22545104 | 100K ohm, 1/4W (PRC) |
| R656 | 22545474 | 470K ohm, 1/4W (PRC) |
| R657 | 22545333 | 33K ohm, 1/4W (PRC) |
| R658 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R659 | 22545101 | 100 ohm, 1/4W (PRC) |
| R660 | 22545182 | 1.8K ohm, 1/4W (PRC) |
| R661 | 22545271 | 270 ohm, 1/4W (PRC) |
| R662 | 22545104 | 100K ohm, 1/4W (PRC) |
| R663 | 22545392 | 3.9K ohm, 1/4W (PRC) |
| R664 | 22584102 | 1K ohm |
| R665 | 22545103 | 10K ohm, 1/4W (PRC) |
| R666 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R667 | 22545224 | 220K ohm, 1/4W (PRC) |
| R668 | 22545122 | 1.2K ohm, 1/4W (PRC) |

| Symbol No. | Part No. | Description |
|---|---|---|
| R669 | 22545474 | 470K ohm, 1/4W (PRC) |
| R670 | 22545474 | 470K ohm, 1/4W (PRC) |
| R671, 672 | 22545103 | 10K ohm, 1/4W (PRC) |
| R673, 674 | 22545563 | 56K ohm, 1/4W (PRC) |
| R675, 676 | 22545104 | 100K ohm, 1/4W (PRC) |
| R677, 678 | 22545104 | 100K ohm, 1/4W (PRC) |
| R679 | 22545474 | 470K ohm, 1/4W (PRC) |
| R680 | 22555101 | 100 ohm, 1/4W |
| R681 | 22545104 | 100K ohm, 1/4W (PRC) |
| R682 | 22545333 | 33K ohm, 1/4W (PRC) |
| | | |
| R701, 707 | 22584220 | 22 ohm |
| R702, 708 | 22584560 | 56 ohm |
| R703, 709 | 22584680 | 68 ohm |
| R704, 410 | 22584339 | 3.3 ohm |
| R705, 711 | 22584562 | 5.6K ohm |
| R706, 712 | 22584152 | 1.5K ohm |
| | | |
| R801, 802 | 22545563 | 56K ohm, 1/4W (PRC) |
| R803, 804 | 22584563 | 56K ohm |
| R805, 806 | 22584392 | 3.9K ohm |
| R807, 808 | 22584332 | 3.3K ohm |
| R809, 810 | 22584562 | 5.6K ohm |
| R811, 812 | 22584684 | 680K ohm |
| R813, 814 | 22550330 | 32K ohm, 1/4W, G |
| R815, 816 | 22550144 | 33K ohm, 1/4W, G |
| R817, 818 | 22550229 | 3.9K ohm, 1/4W, G |
| R819, 820 | 22550235 | 2K ohm, 1/4W, G |
| R821, 822 | 22584392 | 3.9K ohm |
| R823, 824 | 22550330 | 32K ohm, 1/4W, G |
| R825, 826 | 22550325 | 10M ohm, 1/4W, G |
| R827, 828 | 22545104 | 100K ohm, 1/4W (PRC) |
| R829, 830 | 22550325 | 10M ohm, 1/4W, G |
| R831, 832 | 22550323 | 120K ohm, 1/4W, G |
| R833, 834 | 22545221 | 220 ohm, 1/4W (PRC) |
| R835, 836 | 22584104 | 100K ohm |
| R837, 838 | 22545221 | 220 ohm, 1/4W (PRC) |
| R839, 840 | 22540582 | 1.2K ohm, 1/4W, G |
| R841, 842 | 22545221 | 220 ohm, 1/4W (PRC) |
| R843, 844 | 22555475 | 4.7M ohm, 1/4W |
| R845, 846 | 22584104 | 100K ohm |
| R847, 848 | 22540582 | 1.2K ohm, 1/4W, G |
| R849, 850 | 22540581 | 680 ohm, 1/4W, G |
| R851, 852 | 22540583 | 100K ohm, 1/4W, G |
| R853, 854 | 22550329 | 10K ohm, 1/4W, G |
| R855, 856 | 22550136 | 560 ohm, 1/4W, G |
| R857, 858 | 22550329 | 10K ohm, 1/4W, G |
| R859, 860 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R861, 862 | 22545473 | 47K ohm, 1/4W (PRC) |
| R863, 864 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R866 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R867, 868 | 22543181 | 180 ohm, 1/8W |
| R869, 870 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R871, 872 | 22545682 | 6.8K ohm, 1/4W (PRC) |

| Symbol No. | Part No. | Description |
|---|---|---|
| R873, 874 | 22658184 | 10K ohm, Semi-fixed Resistor |
| R875, 876 | 22545682 | 6.8K ohm, 1/4W (PRC) |
| R877, 878 | 22658184 | 10K ohm, Semi-fixed Resistor |
| R879, 880 | 22545103 | 10K ohm, 1/4W (PRC) |
| R881 | 22545223 | 22K ohm, 1/4W (PRC) |
| R882 | 22584225 | 2.2M ohm |
| R901, 902 | 22584472 | 4.7K ohm |
| R903 | 22584183 | 18K ohm |
| R904 | 22543821 | 820 ohm, 1/8W |
| R905 | 22584100 | 10 ohm |
| R906 | 22584151 | 150 ohm |
| R907 | 22555152 | 1.5K ohm, 1/4W |
| R908 | 22584100 | 10 ohm |
| R909 | 22584104 | 100K ohm |
| R913 | 22584332 | 3.3K ohm |
| R914 | 22584332 | 3.3K ohm |
| R915 | 22584333 | 33K ohm |
| R917 | 22543100 | 10 ohm, 1/8W |
| R918 | 22555689 | 6.8 ohm, 1/4W |
| R919 | 22555689 | 6.8 ohm, 1/4W |
| R920 | 22570311 | 220 ohm, 2W, Oxide Metal Film |
| R921 | 22547339 | 3.3 ohm, 1/2W |
| R922 | 22584101 | 100 ohm |
| R923 | 22584331 | 330 ohm |
| R924, 926 | 22584152 | 1.5K ohm |
| R925, 927 | 22584221 | 220 ohm |
| R928 | 22540481 | 3.9 ohm, 1/8W |
| R929 | 22584680 | 68 ohm |
| R930 | 22584560 | 56 ohm |
| R931 | 22584470 | 47 ohm |
| R932, 933 | 22657251 | 1K ohm, Variable |
| R934 | 22545223 | 22K ohm, 1/4W (PRC) |
| R935 | 22545334 | 330K ohm, 1/4W (PRC) |

## ACCESSORIES

| Symbol No. | Part No. | Description |
|---|---|---|
| AC01 | 22105370 | Demonstration Tape |
| ⚠ AC02 | 22176615 | Cord, Power |
| AC03 | 22903504 | Owner's Manual |
| AC04 | 22906359 | Pop Label, Left |
| AC05 | 22906360 | Pop Label, Right |
| AC06 | 25857120 | Spacer, Speaker Box |
| AC07 | 25832696 | Foot, Control |
| AC08 | 22941301 | Poly Bag, Speaker Spacer |
| AC09 | 22941375 | Poly Bag, Speaker Cord |

| Symbol No. | Part No. | Description |
|---|---|---|

**SERVICE DATA**
**FILE NO. 113-300**
**SUPPLEMENT-A**

センターファイル
Center File

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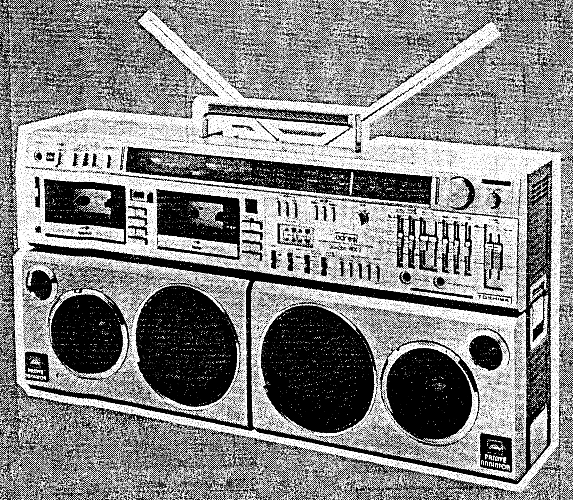
# TOSHIBA

STEREO RADIO CASSETTE RECORDER

# RT-S983(WX-1)



RT-S983
VF (WX-1)

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This supplement informs modifications of the schematic diagram due to change of the address ICs (Q803 and Q804)
Please use the supplement by referring to the Service Data (File No. 110-300)

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PRINTED IN JAPAN 22905388 Dec., 1984 Ⓢ

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## 1-1 DISUSE PARTS

| Symbol No. | Part No. | Description |
|---|---|---|
| **TRANSISTORS, IC'S AND DIODES** | | |
| Q803, 804 | B0354510 | IC, TA7605AP |
| Q811, 812 | A6317460 | Transistor, 2SC1815NEW-GR |
| D801 | A7286500 | Diode, 02Z7.5A |
| **CAPACITORS**<br>D = ±0.5pF, K = ±10%<br>ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic | | |
| C817, 818 | 22362180 | CD, 18pF, 50V, K |
| C823, 824 | 22349222 | CD, 2200pF, 50V, K |
| C827, 828 | 22349221 | CD, 220pF, 50V, K |
| C829, 830 | 22362150 | CD, 15pF, 50V, K |
| C831, 832 | 22485100 | EL, 10mfd, 16V |
| C833, 834 | 22349152 | CD, 1500pF, 50V, K |
| C838 | 22361609 | CD, 6pF, 50V, D |
| **RESISTORS**<br>Resistors are carbon film 1/4W, ±5% unless otherwise noted. | | |
| R833, 834 | 22545221 | 220 ohm, 1/4W (PRC) |
| R836 | 22584104 | 100K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R837, 838 | 22545221 | 220 ohm, 1/4W (PRC) |
| R839, 840 | 22540582 | 1.2K ohm, 1/4W, G |
| R841, 842 | 22545221 | 220 ohm, 1/4W (PRC) |
| R843, 844 | 22555475 | 4.7M ohm, 1/4W |
| R845, 846 | 22584104 | 100K ohm |
| R847, 848 | 22540582 | 1.2K ohm, 1/4W, G |
| R849, 850 | 22540581 | 680 ohm, 1/4W, G |
| R851, 852 | 22540583 | 100K ohm, 1/4W, G |
| R853, 854 | 22550329 | 10K ohm, 1/4W, G |
| R855, 856 | 22550136 | 560 ohm, 1/4W, G |
| R857, 858 | 22550329 | 10K ohm, 1/4W, G |
| R859, 860 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R861, 862 | 22545473 | 47K ohm, 1/4W (PRC) |
| R868 | 22543181 | 180 ohm, 1/8W |
| R869, 870 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R871, 872 | 22545682 | 6.8K ohm, 1/4W (PRC) |
| R873, 874 | 22658184 | 10K ohm, Semi-fixed Resistor |
| R875, 876 | 22545682 | 6.8K ohm, 1/4W (PRC) |
| R877, 878 | 22658184 | 10K ohm, Semi-fixed Resistor |
| R879, 880 | 22545103 | 10K ohm, 1/4W (PRC) |

## 1-2 ADITIONAL PARTS

| Symbol No. | Part No. | Description |
|---|---|---|
| **TRANSISTORS, IC'S AND DIODES** | | |
| Q1, 2 | B0356770 | IC, TA7677P |
| Q3, 4 | A6041980 | Transistor, 2SK118NEW-O |
| D1, 2<br>D3, 4 | A7246703 | Diode, 1S1555V |
| **CAPACITORS**<br>D = ±0.5pF, K = ±10%<br>ABBREVIATIONS: CD = Ceramic Disk,EL = Electrolytic | | |
| C1, 8 | 22362101 | CD, 100pF, 50V, K |
| C2, 12 | 22485101 | EL, 100mfd, 16V |
| C3, 11 | 22362101 | CD, 100pF, 50V, K |
| C4, 10 | 22349102 | CD, 1000pF, 50V, K |
| C5, 9 | 22488479 | EL, 4.7mfd, 50V |
| C6, 7 | 22349222 | CD, 2200pF, 50V, K |
| C13 | 22361609 | CD, 6pF, 50V, K |

| Symbol No. | Part No. | Description |
|---|---|---|
| **RESISTORS**<br>Resistors are carbon film 1/4W, ±5% unless otherwise noted. | | |
| R1 | 22555224 | 220K ohm |
| R2, 23 | 22555104 | 100K ohm |
| R3, 25 | 22555822 | 8.2K ohm |
| R4, 26 | 22555104 | 100K ohm |
| R5, 21 | 22555823 | 82K ohm |
| R6, 22 | 22555224 | 220K ohm |
| R7, 19 | 22547335 | 3.3M ohm, 1/2W |
| R8, 20 | 22555221 | 220 ohm |
| R9, 16 | 22555225 | 2.2M ohm |
| R10, 15 | 22555393 | 39K ohm |
| R11, 18 | 22555333 | 33K ohm |
| R12, 14 | 22555473 | 47K ohm |
| R13, 17 | 22555223 | 22K ohm |
| R27, 30 | 22658764 | 50K ohm, Semi-fixed Variable |
| R28, 29 | 22658761 | 10K ohm, Semi-fixed Variable |

Q001 FM mode(All voltages are 0V except pin 9+2.7V in AM mode)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| FM | 3.7V | 4.4V | 4.4V | 4.4V | 0V | 4.4V | 4.3V | 0V | 3.6V |

Q201 FM mode

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| FM | 3.37V | 5.52V | 6.9V | 6.8V | 0V | 8.15V | 6.25V | 3.57V | 3.64V |

Q439

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Tape Ⓑ Play | 4.9V | 4.9V | 4.9V | 4.9V | 10.3V | 10.3V | 0V |
| Tape Ⓐ→Ⓑ REC | 4.9V | 4.9V | 4.9V | 4.9V | 0V | 0V | 0V |
| | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Tape Ⓑ Play | 4.9V | 4.9V | 4.9V | 4.9V | 0V | 0V | 9.9V |
| Tape Ⓐ→Ⓑ REC | 4.9V | 4.9V | 4.9V | 4.9V | 9.2V | 9.2V | 9.9V |

Q440 Meter AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.4V | 0V | 4.4V | 4.9V | 4.9V | 9.9V |

Q801 Adres AMP & DC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 1.4V | 4.7V | 4.6V | 0V | 4.9V | 4.9V | 4.9V | 9.9V |

Q802 Adres AMP & DC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.9V | 0V | 4.6V | 4.7V | 1.4V | 9.9V |

Q805

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.4V | 0V | 4.4V | 4.9V | 4.9V | 9.9V |

Q002

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 0V | 0V |

Q103 Auto Hight Cut

| E | C | B |
|---|---|---|
| 0V | 0V | 0.59V |

Q101

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| FM | 0V | 0V | 8.34V | 0V | 3.7V | 8.36V | 0V | 1.2V |
| AM (SW) | 0V | 0.19V (0.12V) | 8.34V | 0V | 3.7V | 8.3V | 0.15V (0.1V) | 1.2V |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| FM | 1.2V | 0.85V | 0V | 0.85V | 0V | 7.8V | 7.8V | 7.2V |
| AM | 1.2V | 0V | 1.37V | 0V | 2.0V | 8.24V | 8.24V | 7.2V |

Q102

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 1.37V | 0V |

Q104 LED Drive

| | | E | C | B |
|---|---|---|---|---|
| LED | ON | 0V | 0V | 0.69V |
| | OFF | 0V | 8.1V | 0.12V |

Q815

| | E | C | B |
|---|---|---|---|
| ON | 9.7V | 9.9V | 10.3V |
| OFF | 0V | 9.9V | 0V |

Q806 Voltage Regulator

| E | C | B |
|---|---|---|
| 8.0V | 9.9V | 8.6V |

Q807

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 0.52V | 4.8V |

Q808

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 0.65V |

Q809 ON in Tape Ⓑ Play mode

| | G | D | S |
|---|---|---|---|
| ON | 1.0V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.1V |

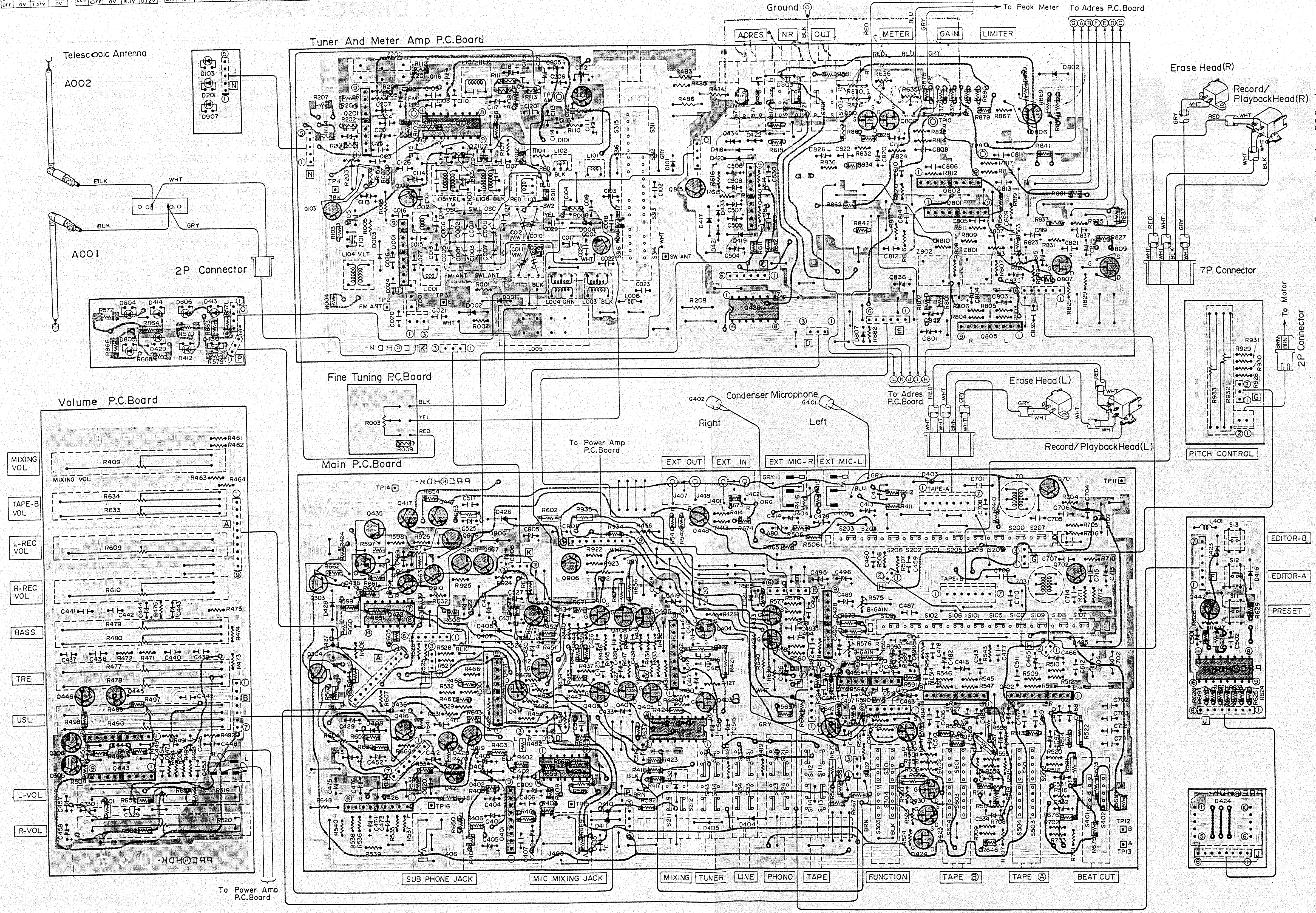
Q810

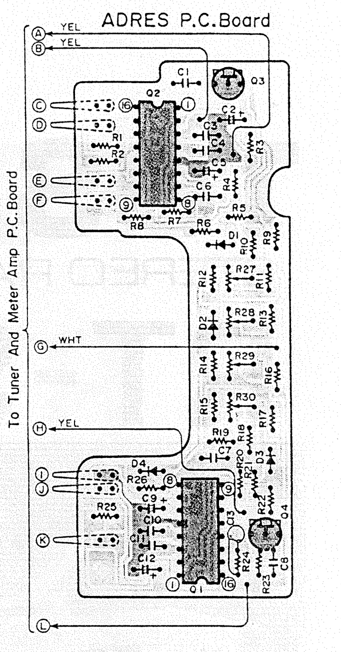
| | G | D | S |
|---|---|---|---|
| ON | 1.0V | 4.8V | 4.8V |
| OFF | 0V | 4.1V | 4.8V |

Q1, 2

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| 8.4V | 1.6V | 5.0V | 5.6V | 0V | 5.3V | 5.0V | 5.8V |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 6.4V | 5.7V | 5.0V | 5.0V | 10V | 5.7V | 5.7V | 5.0V |

# 2. ELECTRICAL PARTS LOCATIONS


Ground
To Peak Meter
To Adres P.C.Board
G A B F E D C
ADRES
NR
OUT
METER
GAIN
LIMITER
RED
BLU
GRY
BLK
Tuner And Meter Amp P.C.Board
Telescopic Antenna
A002
A001
WHT
BLK
GRY
2P Connector
FM ANT
SW ANT
Erase Head(R)
Record/ PlaybackHead(R)
7P Connector
To Motor
2P Connector
BRN
R931
R929
R930
R933
R932
PITCH CONTROL
Fine Tuning P.C.Board
R003
R009
BLK
YEL
RED
To Adres P.C.Board
L K J I H
Condenser Microphone
G402
G401
Right
Left
Erase Head(L)
Record/PlaybackHead(L)
To Power Amp P.C.Board
Volume P.C.Board
MIXING VOL
TAPE-B VOL
L-REC VOL
R-REC VOL
BASS
TRE
USL
L-VOL
R-VOL
Main P.C.Board
EXT OUT
EXT IN
EXT MIC-R
EXT MIC-L
EDITOR-B
EDITOR-A
PRESET
D424
SUB PHONE JACK
MIC MIXING JACK
MIXING
TUNER
LINE
PHONO
TAPE
FUNCTION
TAPE Ⓑ
TAPE Ⓐ
BEAT CUT
To Power Amp P.C.Board


ADRES P.C.Board
YEL
YEL
WHT
YEL
To Tuner And Meter Amp P.C.Board
Q1
Q2
Q3
Q4

Q416 ON except Tape Ⓐ FUNC, REC

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.6V |
| OFF | 0V | 6.8V | 0V |

Q417

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.72V |
| OFF | 0V | 8.4V | 0V |
| Tape Ⓐ Play | — | 0V | — |

Q419, 420

| | E | C | B |
|---|---|---|---|
| ON | 4.9V | 4.9V | 4.2V |
| OFF | 4.9V | 4.9V | 7.6V |

Q421

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 7.7V | 0V |

Q422 Tape Ⓑ REC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 2.9V | 0V | 2.9V | 4.9V | 4.9V | 9.9V |

Q423, 424, 429, 430
Alternately ON in REC mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.1V | 4.8V |

Q426 Headphone AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.8V | 0V | 4.8V | 4.9V | 4.9V | 9.9V |

Q427 Tape Ⓐ REC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 2.6V | 0V | 2.7V | 4.9V | 4.9V | 9.9V |

Q428 Tape Ⓐ PRE AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.8V | 4.9V | 4.9V | 0V | 4.9V | 4.9V | 4.8V | 9.9V |

Q433

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.7V |

Q434

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.7V | 4.8V |

Q435 Voltage Regulator

| E | C | B |
|---|---|---|
| 5.0V | 9.9V | 5.7V |

Q436

| | E | C | B |
|---|---|---|---|
| ON | 0.27V | 0.27V | 0.9V |
| OFF | 0.6V | 4.1V | 0.7V |

Q437

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| MQJS | 5.2V | 2.9V | 0.9V | 0.9V | 0.1V | 1.5V | 1.0V | 0.2V | 5.0V |
| | 0.1V | 0.1V | 0.1V | 0.8V | 0.1V | 1.5V | 0.1V | 0.2V | 5.0V |

Q438 MQJS mode

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.6V |
| OFF | 0V | 10.3V | 0V |

Q441 Depend on MQJS indication

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| | 0.1V | 1.0V | 0.7V | 8.8V | 4.3V | 0V Preset ON 4.7V | 4.7V | 0.1V |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| H | 4.1V | 4.0V | 4.1V | 4.1V | 4.1V | 4.1V | 4.1V | 5.0V |
| L | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 5.0V |

Q442 ON in voltage reduction Muting, line voltage 7V.

| | E | C | B |
|---|---|---|---|
| ON | 0.2V | 0V | 0.55V |
| OFF | 4.3V | 0.1V | 0.1V |

Q447

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.6V |
| OFF | 0V | 8.0V | 0V |

Q448 Tape Ⓐ, Play mode

| | E | C | B |
|---|---|---|---|
| ON | 9.6V | 9.8V | 8.7V |
| OFF | 1.8V | 1.8V | 2.3V |

Q701, 702

| | | E | C | B |
|---|---|---|---|---|
| Play | | 0V | 0V | 0V |
| REC | Metal | 0.2V | 7.8V | 0.5V |
| | CrO2 | 0.15V | 5.6V | — |
| | Normal | 0.1V | 4.2V | — |

D424

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| H | 1.9V | 1.9V | 1.9V | 0V | 0.1V | 1.9V | 1.9V | 1.9V | 1.9V | 0.1V |
| L | 0.1V | 0.1V | 0.1V | 0V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V |

Q415 Built in ALC ON EXT MIC REC

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| ALC | ON | 4.9V | 4.9V | 4.9V | 4.4V | 0V | 4.2V | 4.9V | 4.1V |
| | OFF | 4.9V | 4.9V | 4.9V | 4.4V | 0V | 4.9V | 4.9V | 5.4V |
| | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | ON | 4.9V | 4.9V | 5.4V | 4.2V | 4.4V | 9.7V | 4.4V | 4.9V |
| | OFF | 6.9V | 4.9V | 0V | 4.9V | 4.4V | 9.8V | 4.4V | 4.9V |

Q445, 446

| | E | C | B |
|---|---|---|---|
| ON | 4.8V | 4.8V | 4.3V |

Q305, 306

| | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 0V | 0V |

Q443

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.8V | 4.9V | 4.9V | 4.8V | 0V | 4.8V | 4.9V | 4.9V | 9.8V |

Q444

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.8V | 4.9V | 4.9V | 4.6V | 0V | 4.6V | 4.9V | 4.9V | 9.8V |

Q906

| E | C | B |
|---|---|---|
| 9.9V | 14V | 10.3V |

Q907

| E | C | B |
|---|---|---|
| 4.9V | 5.5V | 5.5V |

Q909

| E | C | B |
|---|---|---|
| 4.9V | 4.2V | 4.2V |

Q908

| E | C | B |
|---|---|---|
| 4.9V | 9.1V | 5.9V |

Q910

| E | C | B |
|---|---|---|
| 4.9V | 0.15V | 4.2V |

Q908, Q910: Center Potential Circuit

Q304

| | E | C | B |
|---|---|---|---|
| ON | 9.8V | 9.7V | 9.1V |
| OFF | 9.8V | 0V | 9.2V |

Q401

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 6.9V | 5.5V | 4.9V | 4.2V | 4.9V | 4.9V | 5.5V | 9.8V | 9.8V |

Q402

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.8V | 2.6V | 0V | 2.6V | 4.8V | 4.9V | 9.9V |

Q403 Phono, Tape mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.9V | 1.4V |

Q404 Phono, Tape mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 1.45V | 4.9V |

Q405

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.7V | 4.8V |

Q407 Tape Ⓐ REC mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.8V | 4.9V |

Q406

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.7V |

Q408 Tape Ⓐ REC mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.9V | 4.8V |

Q409 Phono mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.9V | 1.1V |

Q411

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.8V |

Q410 Phono mode

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 0.7V | 4.9V |

Q412

| | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.8V |

Q413 ALC

| E | C | B |
|---|---|---|
| 0V | 5.7V | 0.65V |

Q414 Mixing AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.9V | 0V | 4.9V | 4.9V | 4.9V | 4.9V |

RT-S983 RT-S983

# 3. SCHEMATIC DIAGRAM

Q1, 2

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|
| 8.4V | 1.6V | 5.0V | 5.6V | 0V | 5.3V | 5.0V | 5.8V |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 5.4V | 5.7V | 5.0V | 5.0V | 0V | 5.7V | 5.7V | 5.0V |

Q001 FM mode(All voltages are 0V except pin 9 • 2.7V in AM model)

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| FM | 3.7V | 4.4V | 4.4V | 4.4V | 0V | 4.4V | 4.3V | 0V | 3.6V |

Q002

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 0V | 0V |

Q101

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| FM | 0V | 0V | 8.34V | 0V | 3.7V | 8.36V | 0V | 1.2V |
| AM (SW) | 0V | 0.19V (0.12V) | 8.34V | 0V | 3.7V | 8.3V | 0.15V (0.1V) | 1.2V |
|  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| FM | 1.2V | 0.85V | 0V | 0.85V | 0V | 7.8V | 7.8V | 7.2V |
| AM | 1.2V | 0V | 1.37V | 0V | 2.0V | 8.24V | 8.24V | 7.2V |

Q102

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 1.37V | 0V |

Q103 Auto Hight Cut

| E | C | B |
|---|---|---|
| 0V | 0V | 0.59V |

Q104 LED Drive

|  |  | E | C | B |
|---|---|---|---|---|
| LED | ON | 0V | 0V | 0.69V |
|  | OFF | 0V | 8.1V | 0.12V |

Q201 FM mode

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| FM | 3.37V | 5.52V | 6.9V | 6.8V | 0V | 8.15V | 6.25V | 3.57V | 3.64V |

Q301, 302

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| 1.3V | 1.4V | 3.7V | 0V | 1.4V | 1.3V |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 0V | 7.5V | 14V | 15V | 14V | 7.6V |

Q304

|  | E | C | B |
|---|---|---|---|
| ON | 9.8V | 9.7V | 9.1V |
| OFF | 9.8V | 0V | 9.2V |

Q305, 306

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 0V | 0V |

Q401

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 8.9V | 5.5V | 4.9V | 4.2V | 4.9V | 4.9V | 5.5V | 9.8V | 9.8V |

Q402

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.8V | 2.6V | 0V | 2.6V | 4.8V | 4.9V | 9.9V |

Q403 Phono, Tape mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.9V | 1.4V |

Q404 Phono, Tape mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 1.45V | 4.9V |

Q405

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.7V | 4.8V |

Q406

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.7V |

Q407 Tape Ⓐ REC mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.8V | 4.9V |

Q408 Tape Ⓐ REC mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.9V | 4.8V |

Q409 Phono mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 4.9V | 1.1V |

Q410 Phono mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.9V | 4.9V |
| OFF | 0V | 0.7V | 4.9V |

Q411

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.8V |

Q412

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.8V |

Q413 ALC

| E | C | B |
|---|---|---|
| 0V | 5.7V | 0.65V |

Q414 Mixing AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.9V | 0V | 4.9V | 4.9V | 4.9V | 4.9V |

Q416 ON except Tape Ⓐ FUNC, REC

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.6V |
| OFF | 0V | 6.8V | 0V |

Q415 Built in ALC ON EXT MIC REC

|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| ALC | ON | 4.9V | 4.9V | 4.9V | 4.4V | 0V | 4.2V | 4.9V | 4.1V |
|  | OFF | 4.9V | 4.9V | 4.9V | 4.4V | 0V | 4.9V | 4.9V | 5.4V |
|  |  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|  | ON | 4.9V | 4.9V | 5.4V | 4.2V | 4.4V | 9.7V | 4.4V | 4.9V |
|  | OFF | 6.9V | 4.9V | 0V | 4.9V | 4.4V | 9.8V | 4.4V | 4.9V |

Q417

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.72V |
| OFF | 0V | 8.4V | 0V |
| Tape Ⓐ Play | — | 0V | — |

Q419, 420

|  | E | C | B |
|---|---|---|---|
| ON | 4.9V | 4.9V | 4.2V |
| OFF | 4.9V | 4.9V | 7.6V |

Q421

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 7.7V | 0V |

Q423, 424, 429, 430
Alternately ON in REC mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.1V | 4.8V |

Q422 Tape Ⓑ REC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 2.9V | 0V | 2.9V | 4.9V | 4.9V | 9.9V |

Q426 Headphone AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.8V | 0V | 4.8V | 4.9V | 4.9V | 9.9V |

Q427 Tape Ⓐ REC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 2.6V | 0V | 2.7V | 4.9V | 4.9V | 9.9V |

Q428 Tape Ⓐ PRE AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.8V | 4.9V | 4.9V | 0V | 4.9V | 4.9V | 4.8V | 9.9V |

Q433

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.7V |

Q434

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.7V | 4.8V |

Q435 Voltage Regulator

| E | C | B |
|---|---|---|
| 5.0V | 9.9V | 5.7V |

Q436

|  | E | C | B |
|---|---|---|---|
| ON | 0.27V | 0.27V | 0.9V |
| OFF | 0.6V | 4.1V | 0.7V |

Q437

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| MQJS | 5.2V | 2.9V | 0.9V | 0.9V | 0.1V | 1.5V | 1.0V | 0.2V | 5.0V |
|  | 0.1V | 0.1V | 0.1V | 0.8V | 0.1V | 1.5V | 0.1V | 0.2V | 5.0V |

Q438 MQJS mode

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.6V |
| OFF | 0V | 10.3V | 0V |

Q439

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Tape Ⓑ Play | 4.9V | 4.9V | 4.9V | 4.9V | 10.3V | 10.3V | 0V |
| Tape Ⓐ→Ⓑ REC | 4.9V | 4.9V | 4.9V | 4.9V | 0V | 0V | 0V |
|  | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Tape Ⓑ Play | 4.9V | 4.9V | 4.9V | 4.9V | 0V | 0V | 9.9V |
| Tape Ⓐ→Ⓑ REC | 4.9V | 4.9V | 4.9V | 4.9V | 9.2V | 9.2V | 9.9V |

Q440 Meter AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.4V | 0V | 4.4V | 4.9V | 4.9V | 9.9V |

Q441 Depend on MQJS Indication

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
|  | 0.1V | 1.0V | 0.7V | 8.8V | 4.3V | 0V Preset ON 4.7V | 4.7V | 0.1V |
|  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| H | 4.1V | 4.0V | 4.1V | 4.1V | 4.1V | 4.1V | 4.1V | 5.0V |
| L | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 5.0V |

Q442 ON in voltage reduction Muting, line voltage 7V.

|  | E | C | B |
|---|---|---|---|
| ON | 0.2V | 0V | 0.55V |
| OFF | 4.3V | 0.1V | 0.1V |

Q443

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.8V | 4.9V | 4.9V | 4.8V | 0V | 4.8V | 4.9V | 4.9V | 9.8V |

Q444

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.8V | 4.9V | 4.9V | 4.6V | 0V | 4.6V | 4.9V | 4.9V | 9.8V |

Q445, 446

|  | E | C | B |
|---|---|---|---|
| ON | 4.8V | 4.8V | 4.3V |

Q447

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.6V |
| OFF | 0V | 8.0V | 0V |

Q448 Tape Ⓐ, Play mode

|  | E | C | B |
|---|---|---|---|
| ON | 9.6V | 9.8V | 8.7V |
| OFF | 1.8V | 1.8V | 2.3V |

Q701, 702

|  |  | E | C | B |
|---|---|---|---|---|
| Play |  | 0V | 0V | 0V |
| REC | Metal | 0.2V | 7.8V | 0.5V |
|  | CrO2 | 0.15V | 5.6V | — |
|  | Normal | 0.1V | 4.2V | — |

Q801 Adres AMP & DC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 1.4V | 4.7V | 4.6V | 0V | 4.9V | 4.9V | 4.9V | 9.9V |

Q802 Adres AMP & DC AMP

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.9V | 0V | 4.6V | 4.7V | 1.4V | 9.9V |

Q805

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 9.9V | 4.9V | 4.9V | 4.4V | 0V | 4.4V | 4.9V | 4.9V | 9.9V |

Q806 Voltage Regulator

| E | C | B |
|---|---|---|
| 8.0V | 9.9V | 8.6V |

Q807

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 0.52V | 4.8V |

Q808

|  | G | D | S |
|---|---|---|---|
| ON | 1.5V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 0.65V |

Q809 ON in Tape Ⓑ Play mode

|  | G | D | S |
|---|---|---|---|
| ON | 1.0V | 4.8V | 4.8V |
| OFF | 0V | 4.8V | 4.1V |

Q810

|  | G | D | S |
|---|---|---|---|
| ON | 1.0V | 4.8V | 4.8V |
| OFF | 0V | 4.1V | 4.8V |

Q815

|  | E | C | B |
|---|---|---|---|
| ON | 9.7V | 9.9V | 10.3V |
| OFF | 0V | 9.9V | 0V |

Q901 Voltage Regulator

| E | C | B |
|---|---|---|
| 14V | 15V | 14.35V |

Q903 Mecha Ⓑ Drive

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 13.5V | 0V |

Q904 Mecha Ⓐ Drive

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0V | 0.7V |
| OFF | 0V | 13.5V | 0V |

Q905 ON in AC mode

|  | E | C | B |
|---|---|---|---|
| ON | 0V | 0.1V | 0.75V |
| OFF | 0V | 13.5V | 0V |

Q906

| E | C | B |
|---|---|---|
| 9.9V | 14V | 10.3V |

Q907

| E | C | B |
|---|---|---|
| 4.9V | 5.5V | 5.5V |

Q908

| E | C | B |
|---|---|---|
| 4.9V | 9.1V | 5.9V |

Q909

| E | C | B |
|---|---|---|
| 4.9V | 4.2V | 4.2V |

Q910

| E | C | B |
|---|---|---|
| 4.9V | 0.15V | 4.2V |

Q908, Q910: Center Potential Circuit

Q911 ON during Plunger Being Puller

|  | E | C | B |
|---|---|---|---|
| ON | — | — | — |
| OFF | 0V | 14.5V | 0.15V |

Q913

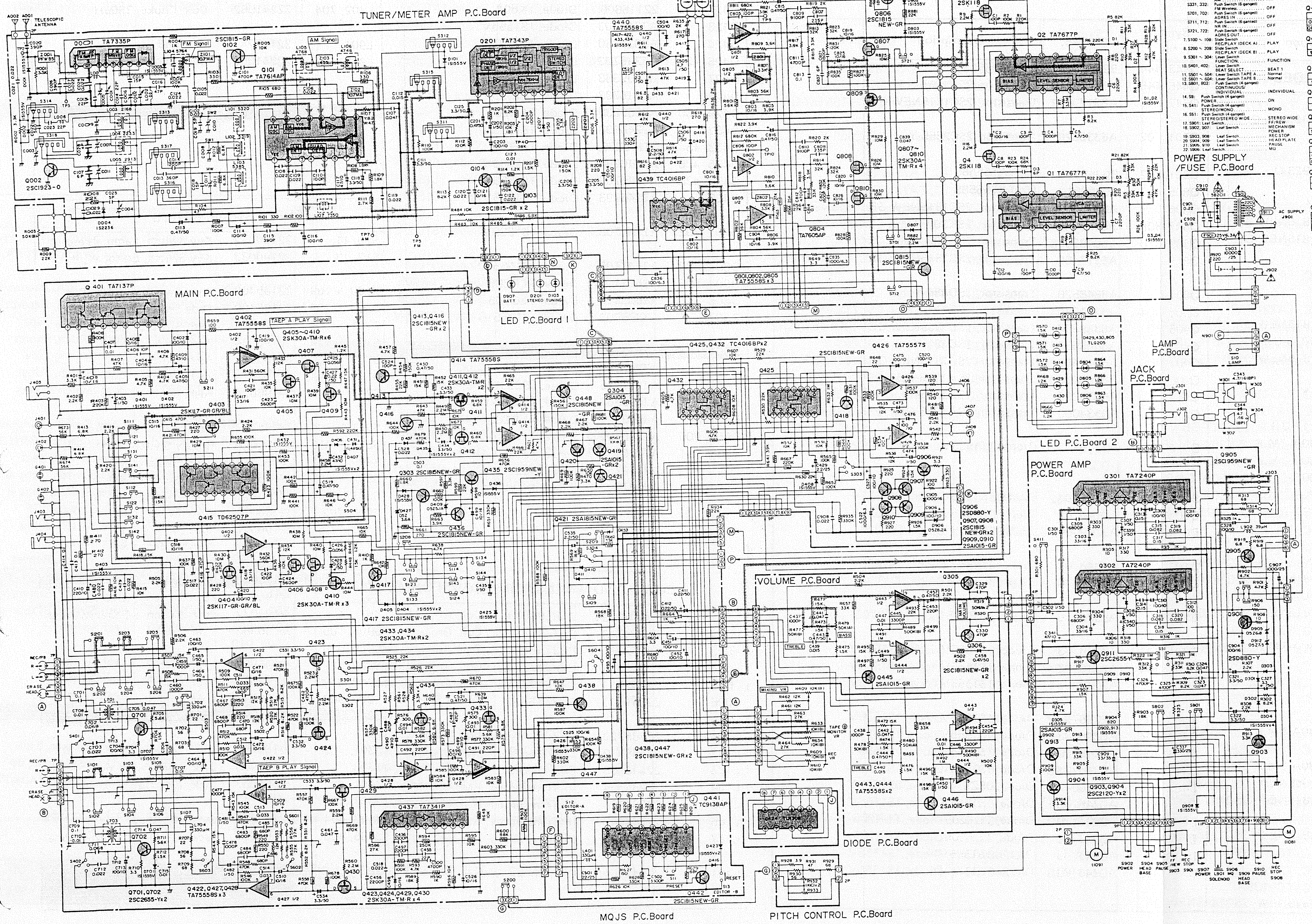
|  | E | C | B |
|---|---|---|---|
| ON | 15.0V | 14.5V | 14.3V |
| OFF | 14.7V | 0V | 15.0V |

D424

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| H | 1.9V | 1.9V | 1.9V | 0V | 0.1V | 1.9V | 1.9V | 1.9V | 1.9V | 0.1V |
| L | 0.1V | 0.1V | 0.1V | 0V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V | 0.1V |

Note | Position

1. S10: Key Switch, Dial Light ........ OFF
2. S11: Key Switch, Pre-set ........ OFF
3. S12: Key Switch, Editor A ........ OFF
4. S13: Key Switch, Editor B ........ OFF
5. S111 ~ 114: Push Switch (5 ganged) TAPE A ........ TAPE
   S121 ~ 124: Push Switch (5 ganged) PHONO ........ OFF
   S131 ~ 134: Push Switch (5-ganged) AUX ........ OFF
   S141 ~ 144: Push Switch (5-ganged) RADIO ........ OFF
   S211: Push Switch (5-ganged) MIXING ........ OFF
6. S311, 312: Push Switch (6-ganged) FM ........ OFF
   S321, 322: Push Switch (6-ganged) AM ........ AM
   S331, 332: Push Switch (6-ganged) FM Wireless ........ OFF
   S701, 702: Push Switch (6-ganged) ADRES IN ........ OFF
   S711, 712: Push Switch (6-ganted) NR IN ........ OFF
   S721, 722: Push Switch (6-ganged) ADRES OUT ........ OFF
7. S100 ~ 109: Slide Switch REC/PLAY (DECK A) ........ PLAY
8. S200 ~ 209: Slide Switch REC/PLAY (DECK B) ........ PLAY
9. S301 ~ 304: Lever Switch FUNCTION ........ FUNCTION
10. S401, 402: Lever Switch BEAT SELECT ........ BEAT 1
11. S501 ~ 504: Lever Switch TAPE A ........ Normal
12. S601 ~ 604: Lever Switch TAPE B ........ Normal
13. S801, 802: Push Switch (4-ganged) CONTINUOUS/INDIVIDUAL ........ INDIVIDUAL
14. S9: Push Switch (4-ganged) POWER ........ ON
15. S41: Push Switch (4-ganged) STEREO/MONO ........ MONO
16. S51: Push Switch (4-ganged) STEREO/STEREO WIDE ........ STEREO WIDE
17. S901: Leaf Switch ........ FF/REW
18. S902, 907: Leaf Switch ........ MECHANISM POWER
19. S903, 908: Leaf Switch ........ REC STOP
20. S904, 909: Leaf Switch ........ HEAD PLATE
21. S905, 910: Leaf Switch ........ PAUSE
22. S906: Leaf Switch ........ MQ



**CAUTION:**
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

# 4-1. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

| Symbol No. | Part No. | Description |
|---|---|---|
| **TRANSISTORS. IC'S AND DIODES** | | |
| Q1, 2 | B0356770 | IC, TA7677P |
| Q3, 4 | A6041980 | Transistor, 2SK118NEW-O |
| Q001 | B0325270 | IC, TA7335P |
| Q002 | A6319020 | Transistor, 2SC1923-O |
| Q101 | B0355431 | IC, TA7614AP-Y |
| Q102 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q103. 104 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q201 | B0325350 | IC, TA7343P |
| Q301, 302 | B0320126 | IC, TA7240AP |
| Q303 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q304 | A6534060 | Transistor, 2SA1015-GR |
| Q305, 306 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q401 | B0312570 | IC, TA7137P-STY |
| Q402 | B0350510 | IC, TA75558S |
| Q403, 404 | A6041860 | Transistor, 2SK117-GR |
| Q405, 406 | A6048310 | Transistor, 2SK30A-TM.R |
| Q407, 408 | A6048310 | Transistor, 2SK30A-TM.R |
| Q409, 410 | A6048310 | Transistor, 2SK30A-TM.R |
| Q411, 412 | A6048310 | Transistor, 2SK30A-TM.R |
| Q413 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q414 | B0350510 | IC, TA75558S |
| Q415 | B0275035 | IC, TD62507P |
| Q416, 417 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q418 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q419, 420 | A6534060 | Transistor, 2SA1015-GR |
| Q421 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q422 | B0350510 | IC, TA75558S |
| Q423, 424 | A6048310 | Transistor, 2SK30A-TM.R |
| Q425 | B0470162 | IC, TC4016BP |
| Q426 | B0350410 | IC, TA75557S |
| Q427 | B0350510 | IC, TA75558S |
| Q428 | B0350510 | IC, TA75558S |
| Q429, 430 | A6048310 | Transistor, 2SK30A-TM.R |
| Q432 | B0470162 | IC, TC4016BP |
| Q433, 434 | A6048310 | Transistor, 2SK30A-TM.R |
| Q435 | A6319300 | Transistor, 2SC1959NEW-Y |
| Q436 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q437 | B0325320 | IC, TA7341P |
| Q438 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q439 | B0470162 | IC, TC4016BP |
| Q440 | B0350510 | IC, TA75558S |
| Q441 | B0411385 | IC, TC9138AP |
| Q442 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q443, 444 | B0350510 | IC, TA75558S |
| Q445, 446 | A6534060 | Transistor, 2SA1015-GR |
| Q447, 448 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q701, 702 | A6333320 | Transistor, 2SC2655-Y |
| Q801, 802 | B0350510 | IC, TA75558S |
| Q805 | B0350510 | IC, TA75558S |
| Q806 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q807, 808 | A6048310 | Transistor, 2SK30A-TM.R |
| Q809, 810 | A6048310 | Transistor, 2SK30A-TM.R |
| Q815 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q901 | A6848520 | Transistor, 2SD880-Y |
| Q903, 904 | A6321240 | Transistor, 2SC2120-Y |
| Q905 | A6319300 | Transistor, 2SC1959NEW-GR |
| Q906 | A6848520 | Transistor, 2SD880-Y |
| Q907, 908 | A6317460 | Transistor, 2SC1815NEW-GR |
| Q909, 910 | A6534060 | Transistor, 2SA1015-GR |
| Q911 | A6333320 | Transistor, 2SC2655-Y |
| Q913 | A6534060 | Transistor, 2SA1015-GR |
| D1, 2<br>D3,4 | A7246703 | Diode, 1S1555V |
| D001, 002 | A7246703 | Diode, 1S1555V |
| D003 | A7246703 | Diode, 1S1555V |
| D004 | A7289000 | Diode, 1S2236 |
| D101 | A7246703 | Diode, 1S1555V |
| D103 | A8606630 | Diode, TLG205 |
| D201 | A8603110 | Diode, TLR205 |
| D301, 302 | A7246703 | Diode, 1S1555V |
| D303, 304 | A7246703 | Diode, 1S1555V |
| D305 | A7246703 | Diode, 1S1555V |
| D401, 402 | A7246703 | Diode, 1S1555V |
| D403, 404 | A7246703 | Diode, 1S1555V |
| D405, 406 | A7246703 | Diode, 1S1555V |
| D407, 408 | A7246703 | Diode, 1S1555V |
| D409 | A7110041 | Diode, 05Z5.1-Y |
| D410, 411 | A7246703 | Diode, 1S1555V |
| D412, 413 | A8603110 | Diode, TLR205 |
| D414 | A8603110 | Diode, TLR205 |
| D416 | A7246703 | Diode, 1S1555V |
| D417, 418 | A7246703 | Diode, 1S1555V |

| Symbol No. | Part No. | Description |
|---|---|---|
| D419, 420 | A7246703 | Diode, 1S1555V |
| D421, 422 | 22115808 | Diode, 1K60A |
| D423 | A7246703 | Diode, 1S1555V |
| D424 | A8620350 | Diode, TLR308 |
| D425, 426 | A7246703 | Diode, 1S1555V |
| D427 | A7109363 | Diode, 05Z3.6-Y |
| D428 | A7246703 | Diode, 1S1555V |
| D429, 430 | A8606630 | Diode, TLG205 |
| D432 | A7246703 | Diode, 1S1555V |
| D433, 434 | 22115808 | Diode, 1K60A |
| D435, 436 | A7246703 | Diode, 1S1555V |
| D437, 438 | A7246703 | Diode, 1S1555V |
| D439 | A7246703 | Diode, 1S1555V |
| D701, 702 | A7246703 | Diode, 1S1555V |
| D802, 803 | A7246703 | Diode, 1S1555V |
| D804, 806 | A8603110 | Diode, TLR205 |
| D805 | A8606630 | Diode, TLG205 |
| D807 | A7246703 | Diode, 1S1555V |
| ⚠ D901 | A7683100 | Diode, 5B2C11 |
| D902 | A7246703 | Diode, 1S1555V |
| D905 | A7110115 | Diode, 05Z6.8-Y |
| D906 | A7110208 | Diode, 05Z8.2-Y |
| D907 | A8603110 | Diode, TLR205 |
| D908, 909 | A7246703 | Diode, 1S1555V |
| D910, 911 | A7246703 | Diode, 1S1555V |
| D912 | A7110160 | Diode, 05Z7.5-Y |
| D913 | A7246703 | Diode, 1S1555V |
| **COILS AND TRANSFORMERS** | | |
| L001 | 22294003 | Coil, RF, FM |
| L002 | 22294016 | Coil, Oscillator, FM |
| L003 | 22282168 | Coil, Antenna, SW2 |
| L004 | 22282233 | Coil, Antenna, SW1 |
| L005 | 22242913 | Coil, Antenna, MW |
| L006 | 22291103 | Coil, 1.5μH |
| L101 | 22285320 | Coil, Oscillator, SW2 |
| L102 | 22285319 | Coil, Oscillator, SW1 |
| L103 | 22245385 | Coil, Oscillator, MW |
| L104 | 22265764 | IF Transformer, FM |
| L105 | 22264768 | IF Transformer, AM |
| L106 | 22264746 | IF Transformer, AM |
| L107 | 22267350 | IF Transformer, FM |
| L401 | 22241062 | Coil, Choke, 330μH |
| L701, 703 | 22235019 | Coil, Oscillator, Tape |
| L702, 704 | 22241062 | Coil, Choke, 330μH |
| L901 | 22147241 | Solenoid |
| L902 | 22241063 | Coil, Choke, 39μH |
| ⚠ T901 | 22224187 | Transformer, Power |
| **ELECTRICAL PARTS** | | |
| S10, 11 | 22196033 | Key Switch, Lamp, Preset |
| S12, 13 | 22196033 | Key Switch, Editor A, B |
| S100 ∿ 109 | 22195409 | Slide Switch, Record/P.B. |
| S200 ∿ 209 | 22195409 | Slide Switch, Record/P.B. |
| S111 ∿ 114, | 22196024 | Push Switch, Tape |
| S121 ∿ 124, | 22196024 | Push Switch, Phono |
| S131 ∿ 134, | 22196024 | Push Switch, Line |
| S141 ∿ 144, | 22196024 | Push Switch, Tuner |
| S211 | 22196024 | Push Switch Mixing |
| S301 ∿ 304 | 22195420 | Lever Switch, Function |
| S311 ∿ 318 | 22196026 | Rotary Switch, Band Select |
| S401 ∿ 402 | 22195449 | Lever Switch, Beat |
| S501 ∿ 504 | 22195420 | Lever Switch, Tape A |
| S601 ∿ 604 | 22195420 | Lever Switch, Tape B |
| S701, 702, | 22196027 | Push Switch, OFF |
| S711, 712, | 22196027 | Push Switch, Adres |
| S721, 722 | 22196027 | Push Switch, NR |
| S801, 802, | 22196022 | Push Switch, Repeat |
| ⚠ S9, | 22196022 | Push Switch, Power |
| S41, | 22196022 | Push Switch, Stereo/Mono |
| S51 | 22196022 | Push Switch, ST/Stereo Wide |
| S901, 905,<br>S906, 910 | 22195983 | Leaf Switch |
| S902, 907 | 22195885 | Leaf Switch |
| S903, 908 | 22196068 | Leaf Switch |
| S904, 909 | 22196087 | Leaf Switch |
| ⚠ S911 | 22195989 | Rotary Switch, Volt Select |
| J301, 302 | 22163785 | Jack, Speaker, 3.5φ |
| J303 | 22163908 | Jack, Headphone, 6φ |
| J401, 402,<br>J407, 408 | 22163887 | Jack, Line Out, Aux/Pnono |
| J403, 404 | 22163865 | Jack, Mic, 3.5φ |
| J405, 406 | 22163907 | Jack, Mic Miximg, Sub Phone |
| ⚠ J901 | 22167876 | Socket, AC |

| Symbol No. | Part No. | Description |
|---|---|---|
| Z001 No.1563 | 22153121 | Filter, RF, FM |
| Z101, 102 | 22153122<br>~~22153079~~ | Filter, Ceramic, 10.7 MHz |
| Z103 | 22153070 | Filter, Ceramic, 455 kHz |
| Z201, 202 | 22153078 | Filter, MPX |
| Z801, 802 | 22153186 | Filter |
| G401, 402 | 22154212 | Microphone Unit |
| W301, 302 | 22152444 | Speaker, 12 cm |
| W303, 304 | 22152412 | Speaker, 4 cm |
| A001, 002 | 22124700 | Rod Antenna |
| ⚠ F901 | 22144457 | Fuse, 125V, 6.3A |
| N401, 402 | 22104578 | Meter |
| N901 | 22113568 | Lamp, 12V, 110mA |
| EP01 | 22113577 | Meter Lamp, 6.3V, 110mA |
| EP02 | 22165047 | Holder, Fuse |

## CAPACITORS

D = ±0.5pF, G = ±2%, J = ±5%, K = ±10%, M = ±20%, Z = −20 + 80%

ABBREVIATIONS: CD = Ceramic Disk, MY = Mylar
PP = Polypropylene, EL = Electrolytic,
BL = Barrier Layer

| Symbol No. | Part No. | Description |
|---|---|---|
| C1, 8 | 22362101 | CD, 100pF, 50V, K |
| C2, 12 | 22485101 | EL, 100mfd, 16V |
| C3, 11 | 22362101 | CD, 100pF, 50V, K |
| C4, 10 | 22349102 | CD, 1000pF, 50V, K |
| C5, 9 | 22488479 | EL, 4.7mfd, 50V |
| C6, 7 | 22349222 | CD, 2200pF, 50V, K |
| C13 | 22361609 | CD, 6pF, 50V, D |
| C001, 002, C003, 004, C005, 006, C007, 008 | 22308426 | Variable Capacitor |
| C009, 010, C011, 012 | 22309183 | Trimmer |
| C013 | 22361220 | CD, 22pF, 50V, J |
| C014 | 22360134 | CD, 22pF, 50V, J |
| C015 | 22360132 | CD, 15pF, 50V, J |
| C016 | 22362470 | CD, 47pF, 50V, K |
| C017 | 22361609 | CD, 6pF, 50V, D |
| C018 | 22262150 | CD, 15pF, 50V, K |
| C019 | 22361509 | CD, 5pF, 50V, D |
| C020 | 22349391 | CD, 390pF, 50V, K |
| C021 | 22342223 | CD, 0.022mfd, 50V, Z |
| C022 | 22362560 | CD, 56pF, 50V, K |

| Symbol No. | Part No. | Description |
|---|---|---|
| C023 | 22360134 | CD, 22pF, 50V, J |
| C024 | 22342223 | CD, 0.022mfd, 50V, Z |
| C025 | 22361509 | CD, 5pF, 50V, D |
| C026 | 22349391 | CD, 390pF, 50V, K |
| C027 | 22342223 | CD, 0.022mfd, 50V, Z |
| C028 | 22361409 | CD, 4pF, 50V, D |
| C029 | 22342223 | CD, 0.022mfd, 50V, Z |
| C101 | 22349472 | CD, 4700pF, 50V, K |
| C102 | 22342223 | CD, 0.022mfd, 50V, Z |
| C103 | 22321050 | PP, 360pF, 50V, J |
| C104 | 22321058 | PP, 1200pF, 50V, J |
| C105 | 22342223 | CD, 0.022mfd, 50V, Z |
| C106 | 22342223 | CD, 0.022mfd, 50V, Z |
| C107 | 22342473 | CD, 0.047mfd, 50V, Z |
| C108 | 22360329 | BL, 0.022mfd, 25V, M |
| C109 | 22342223 | CD, 0.022mfd, 50V, Z |
| C110 | 22362101 | CD, 100pF, 50V, K |
| C111 | 22488339 | EL, 3.3mfd, 50V |
| C112 | 22360328 | BL, 0.015mfd, 25V |
| C113 | 22488478 | EL, 0.47mfd, 50V |
| C114 | 22483101 | EL, 100mfd, 10V |
| C115 | 22349391 | CD, 390pF, 50V, K |
| C116 | 22483101 | EL, 100mfd, 10V |
| C117 | 22483470 | EL, 47mfd, 10V |
| C118 | 22488339 | EL, 3.3mfd, 50V |
| C119 | 22342223 | CD, 0.022mfd, 50V, Z |
| C120 | 22342223 | CD, 0.022mfd, 50V, Z |
| C121 | 22485100 | EL, 10mfd, 16V |
| C122 | 22342223 | CD, 0.022mfd, 50V, Z |
| C123 | 22360327 | BL, 0.01mfd, 25V, M |
| C124 | 22342223 | CD, 0.022mfd, 50V, Z |
| C125 | 22488339 | EL, 3.3mfd, 50V |
| C127 | 22342223 | CD, 0.022mfd, 50V, Z |
| C201 | 22488478 | EL, 0.47mfd, 50V |
| C202 | 22488109 | EL, 1mfd, 50V |
| C203 | 22483101 | EL, 100mfd, 10V |
| C204 | 22321057 | PP, 1000pF, 50V, J |
| C205, 206 | 22488339 | EL, 3.3mfd, 50V |
| C207 | 22488109 | EL, 1mfd, 50V |
| C301, 302 | 22488109 | EL, 1mfd, 50V |
| C303, 304 | 22485330 | EL, 33mfd, 16V |
| C305, 306 | 22360326 | BL, 6800pF, 50V, M |
| C307, 308 | 22488109 | EL, 1mfd, 50V |
| C309, 310 | 22483101 | EL, 100mfd, 10V |
| C311, 312 | 22483101 | EL, 100mfd, 10V |
| C313, 314 | 22373154 | MY, 0.15mfd, 50V, M |
| C315, 316 | 22373823 | MY, 0.082mfd, 50V, M |
| C317, 318 | 22373154 | MY, 0.15mfd, 50V, M |
| C319, 320 | 22373823 | MY, 0.082mfd, 50V, M |
| C321, 322 | 22488339 | EL, 3.3mfd, 50V |
| C323, 324 | 22360331 | BL, 0.047mfd, 25V, M |

| Symbol No. | Part No. | Description |
|---|---|---|
| C325, 326 | 22349472 | CD, 4700pF, 50V, K |
| C327 | 22488339 | EL, 3.3mfd, 50V |
| C328 | 22483101 | EL, 100mfd, 10V |
| C329, 330 | 22349471 | CD, 470pF, 50V, K |
| C339, 340 | 22485330 | EL, 33mfd, 16V |
| C341 | 22483470 | EL, 47mfd, 10V |
| C343, 344 | 22475479 | EL, 4.7mfd, 16V, BP |
| C401 | 22485100 | EL, 10mfd, 16V |
| C402 | 22483101 | EL, 100mfd, 10V |
| C403 | 22488109 | EL, 1mfd, 50V |
| C404 | 22485100 | EL, 10mfd, 16V |
| C405 | 22488478 | EL, 0.47mfd, 50V |
| C406 | 22361100 | CD, 10pF, 50V, D |
| C407 | 22349103 | CD, 0.01mfd, 50V, K |
| C408 | 22485100 | EL, 10mfd, 16V |
| C409 | 22483470 | EL, 47mfd, 10V |
| C410 | 22483221 | EL, 220mfd, 10V |
| C411, 412 | 22488228 | EL, 0.22mfd, 50V |
| C413, 414 | 22360333 | BL, 0.1mfd, 25V, M |
| C415, 416 | 22349471 | CD, 470pF, 50V, K |
| C417, 418 | 22485330 | EL, 33mfd, 16V |
| C419, 420 | 22483101 | EL, 100mfd, 10V |
| C421, 422 | 22362101 | CD, 100pF, 50V, K |
| C423, 424 | 22372562 | MY, 5600pF, 50V, K |
| C425, 426 | 22372563 | MY, 0.056mfd, 50V, K |
| C427, 428 | 22488228 | EL, 0.22mfd, 50V |
| C429 | 22486220 | EL, 22mfd, 25V |
| C430 | 22488478 | EL, 0.47mfd, 50V |
| C431 | 22488478 | EL, 0.47mfd, 50V |
| C432 | 22483470 | EL, 47mfd, 10V |
| C433, 434 | 22488339 | EL, 3.3mfd, 50V |
| C345 | 22488109 | EL, 1mfd, 50V |
| C436 | 22349332 | CD, 3300pF, 50V, K |
| C437, 438 | 22349102 | CD, 1000pF, 50V, K |
| C439, 440 | 22360328 | BL, 0.015mfd, 25V, M |
| C441, 442 | 22360331 | BL, 0.047mfd, 25V, M |
| C443, 444 | 22440271 | EL, 0.47mfd, 50V |
| C445, 446 | 22349332 | CD, 3300pF, 50V, K |
| C447, 448 | 22360327 | BL, 0.01mfd, 25V, M |
| C449, 450 | 22488109 | EL, 1mfd, 50V |
| C451, 452 | 22483101 | EL, 100mfd, 10V |
| C453, 454 | 22349221 | CD, 220pF, 50V, K |
| C455 | 22362220 | CD, 22pF, 50V, K |
| C456 | 22349222 | CD, 2200pF, 50V, K |
| C457, 458 | 22440271 | EL, 0.47mfd, 50V |
| C459, 460 | 22371102 | MY, 1000pF, 50V, J |
| C461 | 22360484 | CD, 0.047mfd, 50V, Z |
| C462 | 22349472 | CD, 4700pF, 50V, K |
| C463, 464 | 22483101 | EL, 100mfd, 10V |
| C465, 466 | 22488109 | EL, 1mfd, 50V |
| C467, 468 | 22360326 | BL, 6800pF, 50V, M |
| C469, 470 | 22349681 | CD, 680pF, 50V, K |

| Symbol No. | Part No. | Description |
|---|---|---|
| C471, 472 | 22485100 | EL, 10mfd, 16V |
| C473, 474 | 22488109 | EL, 1mfd, 50V |
| C475, 476 | 22483101 | EL, 100mfd, 10V |
| C477, 478 | 22371102 | MY, 1000pF, 50V, J |
| C479, 480 | 22342223 | CD, 0.022mfd, 50V, Z |
| C481, 482 | 22488109 | EL, 1mfd, 50V |
| C483, 484 | 22360326 | BL, 6800pF, 50V, M |
| C485, 486 | 22349681 | CD, 680pF, 50V, K |
| C487, 488 | 22349471 | CD, 470pF, 50V, K |
| C489, 490 | 22483470 | EL, 47mfd, 10V |
| C491, 492 | 22349221 | CD, 220pF, 50V, K |
| C493, 494 | 22372103 | MY, 0.01mfd, 50V, K |
| C495, 496 | 22483101 | EL, 100mfd, 10V |
| C497 | 22349222 | CD, 2200pF, 50V, K |
| C498, 499 | 22485100 | EL, 10mfd, 16V |
| C500 | 22349472 | CD, 4700pF, 50V, K |
| C501 | 22486220 | EL, 22mfd, 25V |
| C502 | 22349332 | CD, 3300pF, 50V, K |
| C503 | 22360333 | BL, 0.1mfd, 25V, M |
| C504 | 22483101 | EL, 100mfd, 10V |
| C505, 506 | 22488479 | EL, 4.7mfd, 50V |
| C507, 508 | 22488229 | EL, 2.2mfd, 50V |
| C509, 510 | 22485100 | EL, 10mfd, 16V |
| C511, 512 | 22360330 | BL, 0.033mfd, 25V, M |
| C513, 514 | 22360330 | BL, 0.033mfd, 25V, M |
| C515, 516 | 22485100 | EL, 10mfd, 16V |
| C517 | 22342223 | CD, 0.022mfd, 50V, Z |
| C518 | 22342223 | CD, 0.022mfd, 50V, Z |
| C519 | 22488478 | EL, 0.47mfd, 50V |
| C520 | 22483101 | EL, 100mfd, 10V |
| C521 | 22488478 | EL, 0.47mfd, 50V |
| C522 | 22482102 | EL, 1000mfd, 6.3V |
| C524 | 22362101 | CD, 100pF, 50V, K |
| C525 | 22486101 | EL, 100mfd, 25V |
| C526 | 22485100 | EL, 10mfd, 16V |
| C527 | 22483101 | EL, 100mfd, 10V |
| C528 | 22342223 | CD, 0.022mfd, 50V, Z |
| C529, 530 | 22349331 | CD, 330pF, 50V, K |
| C531, 532 | 22488339 | EL, 3.3mfd, 50V |
| C533, 534 | 22488339 | EL, 3.3mfd, 50V |
| C535 | 22488229 | EL, 2.2mfd, 50V |
| C701, 709 | 22321210 | PP, 0.1mfd, 50V, K |
| C702, 711 | 22372683 | MY, 0.068mfd, 50V, K |
| C703, 712 | 22372223 | MY, 0.022mfd, 50V, K |
| C704, 713 | 22483101 | EL, 100mfd, 10V |
| C705, 714 | 22372473 | MY, 0.047mfd, 50V, K |
| C706, 715 | 22372103 | MY, 0.01mfd, 50V, K |
| C707 | 22372473 | MY, 0.047mfd, 50V, K |
| C708, 710 | 22321057 | PP, 0.01mfd, 100V, J |
| C801, 802 | 22485100 | EL, 10mfd, 16V |
| C803, 804 | 22485100 | EL, 10mfd, 16V |
| C805, 806 | 22362101 | CD, 100pF, 50V, K |

| Symbol No. | Part No. | Description |
|---|---|---|
| C807, 808 | 22321309 | PP, 235pF, 100V, G |
| C809, 810 | 22321308 | PP, 9100pF, 100V, G |
| C811, 812 | 22321307 | PP, 4700pF, 100V, G |
| C813, 814 | 22360333 | BL, 0.1mfd, 25V, M |
| C815, 816 | 22488478 | EL, 0.47mfd, 50V |
| C819, 820 | 22485100 | EL, 10mfd, 16V |
| C821, 822 | 22321306 | PP, 1500pF, 100V, G |
| C825, 826 | 22485100 | EL, 10mfd, 16V |
| C835, 836 | 22482102 | EL, 1000mfd, 6.3V |
| C837 | 22361609 | CD, 6pF, 50V, D |
| C839 | 22360484 | CD, 0.047mfd, 50V, Z |
| | | |
| C901 | 22372224 | MY, 0.22mfd, 50V, K |
| C902 | 22372154 | MY, 0.15mfd, 50V, K |
| C903 | 22440424 | EL, 10000mfd, 25V |
| C904 | 22485101 | EL, 100mfd, 16V |
| C905 | 22485102 | EL, 1000mfd, 16V |
| C906 | 22483101 | EL, 100mfd, 10V |
| C907 | 22486102 | EL, 1000mfd, 25V |
| C908 | 22342223 | CD, 0.022mfd, 50V, Z |
| C909 | 22487330 | EL, 33mfd, 35V |
| C910 | 22372823 | MY, 0.082mfd, 50V, K |

## RESISTORS

1. Resistors are carbon film 1/6W, ±5% unless otherwise noted. G = ±2%
2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required. Please use the substitutional fixed carbon film resistor of 1/4W, ±5% according to the following list. K = 1000, M = 1000000

| Symbol No. | Part No. | Description |
|---|---|---|
| R1 | 22555224 | 220K ohm |
| R2, 23 | 22555104 | 100K ohm |
| R3, 25 | 22555822 | 8.2K ohm |
| R4, 26 | 22555104 | 100K ohm |
| R5, 21 | 22555823 | 82K ohm |
| R6, 22 | 22555224 | 220K ohm |
| R7, 19 | 22547335 | 3.3M ohm, 1/2W |
| R8, 20 | 22555221 | 220 ohm |
| R9, 16 | 22555225 | 2.2M ohm |
| R10, 15 | 22555393 | 39K ohm |
| R11, 18 | 22555333 | 33K ohm |
| R12, 14 | 22555473 | 47K ohm |
| R13, 17 | 22555223 | 22K ohm |
| R27, 30 | 22658764 | 50K ohm, Semi-fixed Variable |
| R28, 29 | 22658761 | 10K ohm, Semi-fixed Variable |
| | | |
| R001 | 22584332 | 3.3K ohm |
| R002 | 22584332 | 3.3K ohm |
| R003 | 22625439 | 50K ohm, Variable |
| R004 | 22545102 | 1K ohm, 1/4W (PRC) |
| R005 | 22584103 | 10K ohm |
| R006 | 22545104 | 100K ohm, 1/4W |
| R007 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R008 | 22545223 | 22K ohm, 1/4W (PRC) |
| R009 | 22545223 | 22K ohm, 1/4W (PRC) |
| R010 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R011 | 22545682 | 6.8K ohm, 1/4W (PRC) |
| R012 | 22545682 | 6.8K ohm, 1/4W (PRC) |
| | | |
| R101 | 22545331 | 330 ohm, 1/4W (PRC) |
| R102 | 22545101 | 100 ohm, 1/4W (PRC) |
| R103 | 22545331 | 330 ohm, 1/4W (PRC) |
| R104 | 22584470 | 47 ohm |
| R105 | 22545681 | 680 ohm, 1/4W (PRC) |
| R106 | 22545331 | 330 ohm, 1/4W (PRC) |
| R107 | 22555829 | 8.2 ohm, 1/4W, Rank–Y |
| R107 | 22555479 | 4.7 ohm, 1/4W, Rank–W |
| R108 | 22545182 | 1.8K ohm, 1/4W (PRC) |
| R109 | 22545182 | 1.8K ohm, 1/4W (PRC) |
| R110 | 22584104 | 100K ohm |
| R111 | 22545272 | 2.7K ohm, 1/4W (PRC) |
| R112 | 22545104 | 100K ohm, 1/4W (PRC) |
| R113 | 22545822 | 8.2K ohm, 1/4W (PRC) |
| R114 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R115 | 22545154 | 150K ohm, 1/4W (PRC) |
| | | |
| R201 | 22545102 | 1K ohm, 1/4W (PRC) |
| R202 | 22545822 | 8.2K ohm, 1/4W (PRC) |
| R203 | 22658599 | 10K ohm, Semi-fixed Variable |
| R204 | 22545154 | 150K ohm, 1/4W (PRC) |
| R205, 206 | 22584332 | 3.3K ohm |
| R207 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R208 | 22545221 | 220 ohm, 1/4W |
| | | |
| R301 | 22584681 | 680 ohm |
| R302 | 22584822 | 8.2K ohm |
| R303, 304 | 22584331 | 330 ohm |
| R305, 306 | 22584100 | 10 ohm |
| R307, 308 | 22584222 | 2.2K ohm |
| R309, 310 | 22584822 | 8.2K ohm |
| R311, 312 | 22584333 | 33K ohm |
| R313, 314 | 22543680 | 68 ohm, 1/8W |
| R315, 316 | 22584102 | 1K ohm |
| R317, 318 | 22584331 | 330 ohm |
| R319, 320 | 22657245 | 50K ohm, Variable |
| R321, 322 | 22584105 | 1M ohm |
| R323 | 22547109 | 1 ohm, 1/2W |
| R324 | 22584472 | 4.7K ohm |
| R325 | 22584102 | 1K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R401 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R402 | 22545103 | 10K ohm, 1/4W (PRC) |
| R403 | 22545224 | 220K ohm, 1/4W (PRC) |
| R404 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R405 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R406 | 22545104 | 100K ohm, 1/4W (PRC) |
| R407 | 22545473 | 47K ohm, 1/4W (PRC) |
| R408 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R409 | 22657247 | 10K ohm, Variable |
| R410 | 22545102 | 1K ohm, 1/4W (PRC) |
| R411, 412 | 22545271 | 270 ohm, 1/4W (PRC) |
| R413, 414 | 22584682 | 6.8K ohm |
| R415, 416 | 22545103 | 10K ohm, 1/4W (PRC) |
| R417, 418 | 22545153 | 15K ohm, 1/4W (PRC) |
| R419, 420 | 22584222 | 2.2K ohm |
| R421, 422 | 22545474 | 470K ohm, 1/4W (PRC) |
| R423 | 22545104 | 100K ohm, 1/4W (PRC) |
| R424 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R427, 428 | 22584221 | 220 ohm |
| R429, 430 | 22550325 | 10M ohm, 1/4W |
| R431, 432 | 22584564 | 560K ohm |
| R433, 434 | 22584123 | 12K ohm |
| R435, 436 | 22584103 | 10K ohm |
| R437, 438 | 22550325 | 10M ohm, 1/4W |
| R439, 440 | 22550325 | 10M ohm, 1/4W |
| R441, 442 | 22545104 | 100K ohm, 1/4W (PRC) |
| R443, 444 | 22550325 | 10M ohm, 1/4W |
| R445, 446 | 22555122 | 1.2K ohm, 1/4W |
| R447, 448 | 22584153 | 15K ohm |
| R449, 450 | 22584225 | 2.2M ohm |
| R451, 452 | 22545153 | 15K ohm, 1/4W (PRC) |
| R453 | 22545104 | 100K ohm, 1/4W (PRC) |
| R454 | 22545154 | 150K ohm, 1/4W |
| R455 | 22545223 | 22K ohm, 1/4W (PRC) |
| R456 | 22545154 | 150K ohm, 1/4W |
| R457 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R458 | 22584225 | 2.2M ohm |
| R459, 460 | 22584682 | 6.8K ohm |
| R461, 462 | 22584123 | 12K ohm |
| R463, 464 | 22584273 | 27K ohm |
| R465, 466 | 22584223 | 22K ohm |
| R467, 468 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R469 | 22545104 | 100K ohm, 1/4W (RPC) |
| R470 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R471, 472 | 22584153 | 15K ohm |
| R473, 474 | 22584152 | 1.5K ohm |
| R475, 476 | 22584152 | 1.5K ohm |
| R477, 478 | 22657249 | 50K ohm, Variable, Treble |
| R479, 480 | 22657246 | 50K ohm, Variable, Bass |
| R481 | 22545102 | 1K ohm, 1/4W (PRC) |
| R483, 484 | 22545103 | 10K ohm, 1/4W |
| R485, 486 | 22545682 | 6.8K ohm, 1/4W |
| R489, 490 | 22657250 | 500K ohm, Variable, USL |
| R491, 492 | 22584105 | 1M ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R493, 494 | 22584223 | 22K ohm |
| R495, 496 | 22545153 | 15K ohm, 1/4W (PRC) |
| R497, 498 | 22545153 | 15K ohm, 1/4W (PRC) |
| R499, 500 | 22584103 | 10K ohm |
| R501, 502 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R503 | 22545104 | 100K ohm, 1/4W (PRC) |
| R504 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R505, 506 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R507, 508 | 22584153 | 15K ohm |
| R509, 510 | 22584104 | 100K ohm |
| R511, 512 | 22584474 | 470K ohm |
| R513, 514 | 22545221 | 220 ohm, 1/4W (PRC) |
| R515, 516 | 22584822 | 8.2K ohm |
| R517, 518 | 22555123 | 12K ohm, 1/4W |
| R519, 520 | 22555273 | 27K ohm, 1/4W |
| R521, 522 | 22545474 | 470K ohm, 1/4W (PRC) |
| R523, 524 | 22584225 | 2.2M ohm |
| R525, 526 | 22584223 | 22K ohm |
| R527, 528 | 22584332 | 3.3K ohm |
| R529, 530 | 22584223 | 22K ohm |
| R531, 532 | 22584103 | 10K ohm |
| R533, 534 | 22545104 | 100K ohm, 1/4W (PRC) |
| R535, 536 | 22584123 | 12K ohm |
| R537, 538 | 22584104 | 100K ohm |
| R539, 540 | 22555121 | 120 ohm, 1/4W |
| R541, 542 | 22545222 | 2.2K ohm, 1/4W (PRC) |
| R543, 544 | 22584153 | 15K ohm |
| R545, 546 | 22584104 | 100K ohm |
| R547, 548 | 22584474 | 470K ohm |
| R549, 550 | 22545221 | 220 ohm, 1/4W (PRC) |
| R551, 552 | 22584822 | 8.2K ohm |
| R553, 554 | 22584123 | 12K ohm |
| R555, 556 | 22584273 | 27K ohm |
| R557, 558 | 22545474 | 470K ohm, 1/4W (PRC) |
| R559, 560 | 22584225 | 2.2M ohm |
| R561, 562 | 22584332 | 3.3K ohm |
| R563, 564 | 22550233 | 24K ohm, 1/4W (RPC) |
| R565, 566 | 22545104 | 100K ohm, 1/4W (RPC) |
| R567 | 22545104 | 100K ohm, 1/4W (PRC) |
| R568, 569 | 22545183 | 18K ohm, 1/4W (PRC) |
| R570, 571 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R572 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R573, 574 | 22545334 | 330K ohm, 1/4W (PRC) |
| R575, 576 | 22658500 | 300 ohm, Semi-fixed Variable |
| R577, 578 | 22584334 | 330K ohm |
| R579, 580 | 22584682 | 6.8K ohm |
| R581, 582 | 22584562 | 5.6K ohm |
| R583, 584 | 22545103 | 10K ohm, 1/4W (PRC) |
| R585 | 22545104 | 100K ohm, 1/4W (PRC) |
| R586 | 22545273 | 27K ohm, 1/4W (PRC) |
| R587 | 22545104 | 100K ohm, 1/4W (PRC) |
| R588 | 22545104 | 100K ohm, 1/4W (PRC) |
| R589 | 22584183 | 18K ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R590 | 22545102 | 1K ohm, 1/4W (PRC) |
| R591 | 22545104 | 100K ohm, 1/4W (PRC) |
| R592 | 22545224 | 220K ohm, 1/4W (PRC) |
| R593 | 22584472 | 4.7K ohm |
| R594 | 22545104 | 250K ohm, 1/4W |
| R594 | 22545154 | (100K + 150K) (PRC) |
| R595 | 22545103 | 10K ohm, 1/4W (PRC) |
| R596 | 22545103 | 10K ohm, 1/4W |
| R597 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R598 | 22584100 | 10 ohm |
| R599 | 22545223 | 22K ohm |
| R600 | 22545683 | 68K ohm, 1/4W (PRC) |
| R601 | 22545473 | 47K ohm, 1/4W (PRC) |
| R602 | 22545334 | 330K ohm, 1/4W (PRC) |
| R603 | 22545334 | 330K ohm, 1/4W (PRC) |
| R604 | 22540639 | 3.3 ohm, 1/4W |
| R605, 606 | 22545472 | 4.7K ohm, 1/4W (PRC) |
| R607, 608 | 22584103 | 10K ohm |
| R609, 610 | 22657247 | 10K ohm, Variable |
| R611, 612 | 22545473 | 47K ohm, 1/4W (PRC) |
| R613, 614 | 22584473 | 47K ohm |
| R615, 616 | 22555820 | 82 ohm, 1/4W |
| R617, 618 | 22545271 | 270 ohm, 1/4W (PRC) |
| R619, 620 | 22545821 | 820 ohm, 1/4W (PRC) |
| R621, 622 | 22545821 | 820 ohm, 1/4W (PRC) |
| R623, 624 | 22545821 | 820 ohm, 1/4W (PRC) |
| R625 | 22545821 | 820 ohm, 1/4W (PRC) |
| R626 | 22545103 | 10K ohm, 1/4W (PRC) |
| R627 | 22584151 | 150 ohm |
| R628 | 22545334 | 330K ohm, 1/4W (PRC) |
| R629 | 22545683 | 68K ohm, 1/4W (PRC) |
| R630 | 22545223 | 22K ohm, 1/4W (PRC) |
| R631 | 22545104 | 100K ohm, 1/4W (PRC) |
| R632 | 22584105 | 1M ohm |
| R633, 634 | 22657248 | 10K ohm, Variable |
| R635, 636 | 22658379 | 2K ohm, Semi-fixed Variable |
| R637 | 22545104 | 100K ohm, 1/4W (PRC) |
| R638 | 22584472 | 4.7K ohm |
| R639, 640 | 22550325 | 10M ohm, 1/4W, K |
| R641 | 22545393 | 39K ohm, 1/4W (PRC) |
| R642 | 22545103 | 10K ohm, 1/4W (PRC) |
| R643 | 22545473 | 47K ohm, 1/4W (PRC) |
| R644 | 22545104 | 100K ohm, 1/4W (PRC) |
| R645, 646 | 22545103 | 10K ohm, 1/4W (PRC) |
| R647 | 22545103 | 10K ohm, 1/4W (PRC) |
| R648 | 22540640 | 22 ohm, 1/4W |
| R649 | 22584339 | 3.3 ohm |
| R650 | 22545103 | 10K ohm, 1/4W (PRC) |
| R651 | 22545334 | 330K ohm, 1/4W (PRC) |
| R652 | 22545104 | 100K ohm, 1/4W (PRC) |
| R653 | 22545334 | 330K ohm, 1/4W (PRC) |
| R654, 655 | 22545104 | 100K ohm, 1/4W (PRC) |
| R656 | 22545474 | 470K ohm, 1/4W (PRC) |
| R657 | 22545333 | 33K ohm, 1/4W (PRC) |

| Symbol No. | Part No. | Description |
|---|---|---|
| R658 | 22545332 | 3.3K ohm, 1/4W (PRC) |
| R659 | 22545101 | 100 ohm, 1/4W (PRC) |
| R660 | 22545182 | 1.8K ohm, 1/4W (PRC) |
| R661 | 22545271 | 270 ohm, 1/4W (PRC) |
| R662 | 22545104 | 100K ohm, 1/4W (PRC) |
| R663 | 22545392 | 3.9K ohm, 1/4W (PRC) |
| R664 | 22584102 | 1K ohm |
| R665 | 22545103 | 10K ohm, 1/4W (PRC) |
| R666 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R667 | 22545224 | 220K ohm, 1/4W (PRC) |
| R668 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R669 | 22545474 | 470K ohm, 1/4W (PRC) |
| R670 | 22545474 | 470K ohm, 1/4W (PRC) |
| R671, 672 | 22545103 | 10K ohm, 1/4W (PRC) |
| R673, 674 | 22545563 | 56K ohm, 1/4W (PRC) |
| R675, 676 | 22545104 | 100K ohm, 1/4W (PRC) |
| R677, 678 | 22545104 | 100K ohm, 1/4W (PRC) |
| R679 | 22545474 | 470K ohm, 1/4W (PRC) |
| R680 | 22555101 | 100 ohm, 1/4W |
| R681 | 22545104 | 100K ohm, 1/4W (PRC) |
| R682 | 22545333 | 33K ohm, 1/4W (PRC) |
| | | |
| R701, 707 | 22584220 | 22 ohm |
| R702, 708 | 22584560 | 56 ohm |
| R703, 709 | 22584680 | 68 ohm |
| R704, 710 | 22584339 | 3.3 ohm |
| R705, 711 | 22584562 | 5.6K ohm |
| R706, 712 | 22584152 | 1.5K ohm |
| | | |
| R801, 802 | 22545563 | 56K ohm, 1/4W (PRC) |
| R803, 804 | 22584563 | 56K ohm |
| R805, 806 | 22584392 | 3.9K ohm |
| R807, 808 | 22584332 | 3.3K ohm |
| R809, 810 | 22584562 | 5.6K ohm |
| R811, 812 | 22584684 | 680K ohm |
| R813, 814 | 22550330 | 32K ohm, 1/4W, G |
| R815, 816 | 22550144 | 33K ohm, 1/4W, G |
| R817, 818 | 22550229 | 3.9K ohm, 1/4W, G |
| R819, 820 | 22550235 | 2K ohm, 1/4W, G |
| R821, 822 | 22584392 | 3.9K ohm |
| R823, 824 | 22550330 | 32K ohm, 1/4W, G |
| R825, 826 | 22550325 | 10M ohm, 1/4W, G |
| R827, 828 | 22545104 | 100K ohm, 1/4W (PRC) |
| R829, 830 | 22550325 | 10M ohm, 1/4W, G |
| R831, 832 | 22550323 | 120K ohm, 1/4W, G |
| R835 | 22584104 | 100K ohm |
| R863, 864 | 22545152 | 1.5K ohm, 1/4W (PRC) |
| R866 | 22545122 | 1.2K ohm, 1/4W (PRC) |
| R867 | 22543181 | 180 ohm, 1/8W |
| R881 | 22545223 | 22K ohm, 1/4W (PRC) |
| R882 | 22584225 | 2.2M ohm |
| R901, 902 | 22584472 | 4.7K ohm |
| R903 | 22584183 | 18K ohm |
| R904 | 22543821 | 820 ohm, 1/8W |

| Symbol No. | Part No. | Description |
|---|---|---|
| R905 | 22584100 | 10 ohm |
| R906 | 22584151 | 150 ohm |
| R907 | 22555152 | 1.5K ohm, 1/4W |
| R908 | 22584100 | 10 ohm |
| R909 | 22584104 | 100K ohm |
| R913 | 22584332 | 3.3K ohm |
| R914 | 22584332 | 3.3K ohm |
| R915 | 22584333 | 33K ohm |
| R917 | 22543100 | 10 ohm, 1/8W |
| R918 | 22555689 | 6.8 ohm, 1/4W |
| R919 | 22555689 | 6.8 ohm, 1/4W |
| R920 | 22570311 | 220 ohm, 2W, Oxide Metal Film |
| R921 | 22547339 | 3.3 ohm, 1/2W |
| R922 | 22584101 | 100 ohm |
| R923 | 22584331 | 330 ohm |
| R924, 926 | 22584152 | 1.5K ohm |
| R925, 927 | 22584221 | 220 ohm |
| R928 | 22540481 | 3.9 ohm, 1/8W |
| R929 | 22584680 | 68 ohm |
| R930 | 22584560 | 56 ohm |
| R931 | 22584470 | 47 ohm |

| Symbol No. | Part No. | Description |
|---|---|---|
| R932, 933 | 22657251 | 1K ohm, Variable |
| R934 | 22545223 | 22K ohm, 1/4W (PRC) |
| R935 | 22545334 | 330K ohm, 1/4W (PRC) |

### ACCESSORIES

| Symbol No. | Part No. | Description |
|---|---|---|
| AC01 | 22105370 | Demonstration Tape |
| ⚠ AC02 | 22176615 | Cord, Power |
| AC03 | 22903504 | Owner's Manual |
| AC04 | 22906359 | Pop Label, Left |
| AC05 | 22906360 | Pop Label, Right |
| AC06 | 25857120 | Spacer, Speaker Box |
| AC07 | 25832696 | Foot, Control |
| AC08 | 22941301 | Poly Bag, Speaker Spacer |
| AC09 | 22941375 | Poly Bag, Speaker Cord |

## 4-2. PARTS LIST (SPEAKERS)

| Symbol No. | Part No. | Description |
|---|---|---|
| 329 | 22701326 | Screw, 3$\phi$ x 8mm, BID-TP |
| 339 | 22701438 | Screw, 4$\phi$ x 10mm, BID-TP |
| 340 | 22701334 | Screw, 3$\phi$ x 35mm |
| 363 | 22707536 | Screw, 3$\phi$ x 10mm, BID |
| 364 | 20831376 | Passive Radiator |
| 365 | 22701436 | Screw, 3$\phi$ x 8mm, TPPAN |
| 366 | 25857104 | Spacer, Tweeter |
| 367 | 25881582 | Box Ass'y, Speaker, Right |
| 368 | 25881584 | Back Cabinet, Speaker, R |

| Symbol No. | Part No. | Description |
|---|---|---|
| 369 | 25832595 | Decoration, Joint Speaker |
| 370 | 22707778 | Screw, 3$\phi$ x 12mm, OVL |
| 372 | 25881357 | Joint Rock Ass'y |
| 373 | 25847255 | Joint Bracket, Bottom |
| 374 | 25847258 | Joint Bracket, R |
| 375 | 22166153 | Cord, Speaker |
| 376 | 25881583 | Box Ass'y, Speaker, Left |
| 377 | 25881585 | Back Cabinet, Speaker, L |
| 378 | 25847267 | Joint Bracket, L |

# 4-3. PARTS LIST (MECHANISM)

| Symbol No. | Part No. | Description |
|---|---|---|
| 1 | 25782511 | Lever, Record Lock |
| 2 | 25756280 | Gear, Rewind |
| 3 | 25756279 | Gear, Fast-forward |
| 4 | 25776432 | Spring |
| 5 | 25782509 | Lever, Fast-forward Gear |
| 6 | 25778013 | Spring, Rewind |
| 7 | 25782507 | Lever, Fast Drive |
| 8 | 25783266 | Slider, Rewind Drive |
| 10 | 25778008 | Spring, Play Lever |
| 11 | 25782505 | Lever, Play Drive |
| 12 | 22707301 | Screw, 2.6φ x 8mm, BID-TP |
| 13 | 25791505 | Main Chassis Ass'y |
| 14 | 25754402 | Reel Plate Ass'y, Supply |
| 15 | 25777099 | Spring, Supply Reel Plate |
| 16 | 25712409 | Reel Plate Ass'y, Take-up |
| 17 | 22707825 | Screw, 2.6φ x 6mm, TPAN |
| 18 | 22703281 | Washer, 2.6φ |
| 19 | 25776431 | Spring |
| 20 | 25772579 | Spring, Erase Head |
| 21 | 25777056 | Spring, Head |
| 22 | 25778007 | Spring, Head Slider |
| 24 | 25757129 | Stell Ball, 2φ |
| 26 | 25766050 | Washer |
| 27 | 22707602 | Screw, 2φ x 10mm, DTBID |
| 31 | 22218249 | Erase Head |
| 32 | 22217362 | Record/Playback Head |
| 33 | 25717516 | Pressure Roller Ass'y |
| 34 | 25778006 | Spring, Pressure Roller |
| 35 | 22707303 | Screw, 2.6φ x 10mm, BID-TP |
| 36 | 25779240 | Spring, Holder |
| 39 | 25873238 | Tape Counter |
| 40 | 25755529 | Belt, Tape Counter |
| 41 | 25776436 | Spring, Lock Holder |
| 42 | 25782512 | Lever, Lock Holder |
| 43 | 25783195 | Bush |
| 44 | 25782510 | Lever, ASO Pause |
| 45 | 25776418 | Spring |
| 46 | 25782506 | Lever, Pause |
| 48 | 25816687 | Button, Play |
| 49 | 25816689 | Button, Record |
| 50 | 25816690 | Button, Stop/Eject |
| 51 | 25816686 | Button, Rewind |
| 52 | 25816685 | Button, FF |
| 53 | 25816688 | Button, Pause |
| 54 | 25783279 | Bush |
| 55 | 25777097 | Spring, Pause Lock |
| 56 | 25775231 | Wire, Pause Lock |
| 58 | 25783271 | Slider, Record |
| 59 | 25783272 | Slider, Stop |
| 60 | 25783269 | Slider, Rewind |
| 61 | 25783268 | Slider, FF |
| 62 | 25783267 | Slider, Play |
| 63 | 25783270 | Slider, Pause |
| 64 | 25755527 | Belt, Drive |
| 65 | 25725340 | Bearing |
| 66 | 25766089 | Washer |
| 67 | 25717517 | Flywheel Ass'y |
| 68 | 25777108 | Spring, Thrust |
| 70 | 22701389 | Screw, 2.6φ x 3mm, BID |
| 71 | 25782508 | Lever, Search |
| 72 | 25778012 | Spring, ASO Lever |
| 73 | 25782521 | Lever, ASO |
| 74 | 25776437 | Spring |
| 75 | 25782514 | Operation Lever, FF |
| 76 | 25782513 | Operation Lever, Play |
| 77 | 25782515 | Operation Lever, Pause |
| 78 | 25776420 | Spring |
| 80 | 25756282 | Cam Gear, Pause |
| 81 | 25756281 | Cam Gear, Play |
| 82 | 25776417 | Spring |
| 83 | 25741924 | Slider, Switch |
| 84 | 25741925 | Slider, Eject |
| 85 | 25741923 | Slider, Lock |
| 88 | 22707183 | Spring Pin, Solenoid |
| 90 | 22707169 | Screw, 2.6φ x 10mm, DTBID |
| 92 | 22707299 | Screw, 2φ x 8mm, BID-TP |
| 93 | 25776445 | Spring |
| 94 | 25734462 | Sub Plate Ass'y |
| 95 | 25778014 | Spring, Rewind Slider |
| 96 | 25756283 | Cam Gear, Fast |
| 97 | 25782522 | Lever, Play Stop |
| 98 | 25782516 | Lever, Record |
| 100 | 25778015 | Spring |
| 101 | 25775232 | Wire, Record |
| 102 | 25776419 | Spring |
| 103 | 25783226 | Bush |
| 104 | 25778011 | Spring, Detect Lever |
| 105 | 25766073 | Washer, ASO |
| 107 | 25782520 | Lever, ASO Detect |
| 108 | 25791506 | Motor Ass'y |
| 109 | 25781520 | Motor Ass'y |
| 110 | 25761238 | Cushion, Motor |
| 112 | 22161271 | Terminal Board |
| 114 | 22707429 | Screw, 2.6φ x 6.7mm |
| 115 | 25783199 | Washer |
| 116 | 25713559 | Pulley Ass'y, Center |
| 117 | 25755528 | Belt, Center |
| 118 | 25756284 | Gear, Take-up |
| 119 | 25756285 | Gear, Fast |
| 120 | 25782519 | Lever, Take-up |
| 122 | 25782517 | Lever, Record Bias |
| 123 | 25782518 | Lever, Record Select |
| 124 | 25748595 | Lever, Record |
| 125 | 25776433 | Spring, Record Lever |
| 126 | 25776435 | Spring, Record Select Lever |
| 127 | 25776434 | Spring, Record Bias Lever |
| 128 | 25779283 | Spring |
| 130 | 25783260 | Bush |
| 132 | 22707669 | Screw, 2φ x 12mm, DTBID |
| 133 | 25777133 | Spring, Solenoid |
| 135 | 22707366 | Screw, 2.6φ x 6mm, DTBID |
| 138 | 22707592 | Screw, 2φ x 10mm, BID-TP |
| 139 | 22707837 | Screw, 2φ x 5mm, PAN |
| 140 | 22707369 | Screw, 2.6φ x 12mm, DTBID |
| 142 | 22707426 | Screw, 2φ x 5mm, DTBID |
| 144 | 25766090 | Washer |
| 145 | 25764597 | Washer |
| 146 | 25754441 | Spacer |